# Drug Rapid Test (Urine drugtest) Package Insert English

Instruction Sheet for testing of individual drugs or any combination of the following drugs:

#### 6-MÄM/AMP/BAR/BUP/BZO/ACL/COC/COT/EDDP/ETG/FYL/GAB/K2/K2+/KET/KRA/LSD/M DMA/MDPV/MET/MOP/MPD/MQL/MTD/OPI/OXY/PCP/PGBPPX/TCA/THC/TML/ZOL/ZOP/AL C

Including Specimen Validity Tests (S.V.T.) for:

Oxidants/PCC, Specific Gravity, pH, Nitrite, Glutaraldehyde and Creatinine

A Rapid Test for the simultaneous, qualitative detection of related drugs and drug metabolites in human urine. For healthcare professionals including professionals at point of care sites. Immunoassay for invitro diagnostic use only.

#### [INTENDED USE]

The Drug Rapid Test is a rapid chromatographic immunoassay for the qualitative detection of multiple drugs and drug metabolites in urine at the following cut-off concentrations:

| Test   | Calibrator  | Cut-off (ng/mL) |  |
|--|---|-----------------|--|
| 6-Monoacetylmorphine(6-MAM)                                  | 6-MonoacetyImorphine                                  | 10              |  |
| Amphetamine (AMP)  | d-Amphetamine   | 1,000/500/300   |  |
| Barbiturates (BAR)   | Secobarbital  | 300/200         |  |
| Buprenorphine (BUP)  | Buprenorphine   | 10              |  |
| Benzodiazepines (BZO)  | Oxazepam  | 500/300/200/100 |  |
| Clonazepam (CLO/ACL)   | 7-Aminoclonazepam                                     | 100             |  |
| Cocaine (COC)  | Benzoylecgonine                                       | 300/150/100     |  |
| Cotinine (COT)   | Cotinine  | 200/100         |  |
| 2-ethylidene-1,5-dimethyl-<br>3,3-diphenylpyrrolidine (EDDP) | 2-ethylidene-1,5-dimethyl-<br>3,3-diphenylpyrrolidine | 300/100         |  |
| Ethyl Glucuronide (ETG)                                      | Ethyl Glucuronide                                     | 500             |  |
| Fentanyl (FYL)   | Norfentanyl   | 20/10           |  |
| Gabapentin (GAB)   | Gabapentin  | 2,000           |  |
| Synthetic Marijuana (K2)                                     | JWH-018 5-Pentanoic acid metabolite                   | 50/30           |  |
| AB-PINACA (K2+)  | AB-PINACA pentanoic acid metabolite                   | 10              |  |
| Ketamine (KET)   | Ketamine  | 1,000/500/300   |  |
| Kratom (KRA)   | Mitragynine   | 100             |  |
| Lysergic acid diethylamide (LSD)                             | Lysergic acid diethylamide                            | 50              |  |
| Methylenedioxymethamphetamine<br>(MDMA)/Ecstasy              | d,I-Methylenedioxymethamphetamine                     | 1,000/500       |  |
| 3,4-methylenedioxypyrovalerone (MDPV)                        | 3,4-methylenedioxypyrovalerone                        | 3,000/1,000     |  |
| Methamphetamine (MET)  | d-Methamphetamine                                     | 1,000/500/300   |  |
| Morphine (MOP/OPI)   | Morphine  | 300/200/100     |  |
| Methylphenidate (MPD)  | Methylphenidate                                       | 150             |  |
| Methaqualone (MQL)   | Methaqualone  | 300             |  |
| Methadone (MTD)  | Methadone   | 300/200         |  |
| Opiate (OPI)   | Morphine  | 2,000/1,000     |  |
| Oxycodone (OXY)  | Oxycodone   | 100             |  |
| Phencyclidine (PCP)  | Phencyclidine   | 25              |  |
| Pregabalin (PGB)   | Pregabalin  | 2,000/700/500   |  |
| Propoxyphene (PPX)   | Propoxyphene  | 300             |  |

| Tricyclic Antidepressants (TCA) | Nortriptyline                     | 1,000/500        |
|---------------------------------|-----------------------------------|------------------|
| Marijuana (THC)                 | 11-nor-∆9-THC-9 COOH              | 150/50/25/20/600 |
| Tramadol (TML/TRA)              | Tramadol                          | 300/100          |
| Zolpidem (ZOL)                  | Zolpidem Phenyl-4-carboxylic acid | 50               |
| Zopiclone (ZOP)                 | Zopiclone                         | 50               |
| Alcohol (ALC)                   | ALC                               | 40mg/dL          |

Configurations of the Drug Rapid Test come with any combination of the above listed drug analytes with or without adulteration test. This assay provides only a preliminary analytical test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS), gas chromatography/tandem mass spectrometry (GC/MS/MS), liquid chromatography/mass spectrometry (LC/MS) or liquid chromatography/tandem mass spectrometry (LC/MS/MS) are the preferred confirmatory method<sup>1,2,3</sup>. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated.

#### (SUMMARY)

The Drug Rapid Test is a rapid urine screening test that can be performed without the use of an instrument. The test utilizes monoclonal antibodies to selectively detect elevated levels of specific drugs in urine.

#### 6-MonoacetyImorphine(6-MAM)

6-Monoacetylmorphine (6-MAM) or 6-Acetylmorphine (6-AM) is one of three active metabolites of heroin (diacetylmorphine), the others being morphine and the much less active3-Monoacetylmorphine (3-MAM). 6-MAM is rapidly created from heroin in the body, and then is either metabolized into morphine or excreted in the urine. 6-MAM remains in the urine for no more than 24 hours. The best detection time was 2-8 hours after taking heroin. So a urine specimen must be collected soon after the last heroin use, but the presence of 6-MAMguarantees that heroin was in fact used as recently as within the last day. 6-MAM is naturally found in the brain, but in such small quantities that detection of this compound in urine virtually guarantees that heroin has recently been consumed.

#### Amphetamine (AMP)

Amphetamine is a Schedule II controlled substance available by prescription (Dexedrine®) and is also available on the illicit market. Amphetamines are a class of potent sympathomimetic agents with therapeutic applications. They are chemically related to the human body's natural catecholamines: epinephrine and norepinephrine. Acute higher doses lead to enhanced stimulation of the central nervous system (CNS) and induce euphoria, alertness, reduced appetite, and a sense of increased energy and power. Cardiovascular responses to amphetamines include increased blood pressure and cardiac arrhythmias. More acute responses produce anxiety, paranoia, hallucinations, and psychotic behavior. The effects of Amphetamines generally last 2-4 hours following use and the drug has a half-life of 4-24 hours in the body. About 30% of amphetamines are excreted in the urine in unchanged form, with the remainder as hydroxylated and deaminated derivatives.

#### Barbiturates (BAR)

Barbiturates are CNS depressants. They are used therapeutically as sedatives, hypnotics, and anticonvulsants barbiturates are almost always taken orally as capsules or tablets. The effects resemble those of intoxication with alcohol. Chronic use of barbiturates leads to tolerance and physical dependence.

Short-acting barbiturates taken at 400 mg/day for 2-3 months can produce a clinically significant degree of physical dependence. Withdrawal symptoms experienced during periods of drug abstinence can be severe enough to cause death.

Only a small amount (less than 5%) of most barbiturates are excreted unaltered in the urine.

| Short acting (e.g. Secobarbital) | 100 mg PO (oral) | 4.5 days            |  |  |  |  |  |
|----------------------------------|------------------|---------------------|--|--|--|--|--|
| Long acting (e.g. Phenobarbital) | 400 mg PO (oral) | 7 days <sup>2</sup> |  |  |  |  |  |
|                                  |                  |                     |  |  |  |  |  |

#### Buprenorphine (BUP)

Buprenorphine is a potent analgesic often used in the treatment of opioid addiction. The drug is sold under the trade names Subutex<sup>™</sup>, Buprenex<sup>™</sup>, Temgesic<sup>™</sup> and Suboxone<sup>™</sup>, which contain Buprenorphine HCI alone or in combination with Naloxone HCI. Therapeutically, Buprenorphine is used as a substitution treatment for opioid addicts. Substitution treatment is a form of medical care offered to opiate addicts (primarily heroin addicts) based on a similar or

identical substance to the drug normally used. In substitution therapy, Buprenorphine is as effective as Methadone but demonstrates a lower level of physical dependence. Concentrations of free Buprenorphine and Norbuprenorphine in urine may be less than 1 ng/ml after therapeutic administration, but can range up to 20 ng/ml in abuse situations. The plasma half-life of Buprenorphine is 2-4 hours.<sup>4</sup> While complete elimination of a single dose of the drug can take as long as 6 days, the window of detection for the parent drug in urine is thought to be approximately 3 days.

Substantial abuse of Buprenorphine has also been reported in many countries where various forms of the drug are available. The drug has been diverted from legitimate channels through theft, doctor shopping, and fraudulent prescriptions, and been abused via intravenous, sublingual, intranasal and inhalation routes.

#### Benzodiazepines (BZO)

Benzodiazepines are medications that are frequently prescribed for the symptomatic treatment of anxiety and sleep disorders. They produce their effects via specific receptors involving a neurochemical called gamma aminobutyric acid (GABA). Because they are safer and more effective, benzodiazepines have replaced barbiturates in the treatment of both anxiety and insomnia. Benzodiazepines are also used as sedatives before some surgical and medical procedures, and for the treatment of seizure disorders and alcohol withdrawal.

Risk of physical dependence increases if benzodiazepines are taken regularly (e.g., daily) for more than a few months, especially at higher than normal doses. Stopping abruptly can bring on such symptoms as trouble sleeping, gastrointestinal upset, feeling unwell, loss of appetite, sweating, trembling, weakness, anxiety and changes in perception.

Only trace amounts (less than 1%) of most benzodiazepines are excreted unaltered in the urine: most of the concentration in urine is conjugated drug. The detection period for benzodiazepines in urine is 3-7 days.

#### Clonazepam (CLO/ACL)

Clonazepam, a type of anti-epileptic drug, is used to treat certain seizure disorders (including absence seizures or Lennox-Gastaut syndrome) in adults and children. And it is also used to treat panic disorder (including agoraphobia) in adults. It belongs to a benzodiazepine. It affects chemicals in the brain that may be unbalanced to treat seizures and certain types of anxiety disorders.

#### Cocaine (COC)

Cocaine is a potent central nervous system stimulant and a local anesthetic. Initially, it brings about extreme energy and restlessness while gradually resulting in tremors, over-sensitivity and spasms. In large amounts, cocaine causes fever, unresponsiveness, difficulty in breathing and unconsciousness.

Cocaine is often self-administered by nasal inhalation, intravenous injection and free-base smoking. It is excreted in the urine in a short time primarily as benzovlecgonine.5,6 Benzoylecgonine, a major metabolite of cocaine, has a longer biological half-life (5-8 hours) than cocaine (0.5-1.5 hours), and can generally be detected for 24-48 hours after cocaine exposure. Cotinine (COT)

Cotinine is the first-stage metabolite of nicotine, a toxic alkaloid that produces stimulation of the autonomic ganglia and central nervous system when in humans. Nicotine is a drug to which virtually every member of a tobacco-smoking society is exposed whether through direct contact or second-hand inhalation. In addition to tobacco, nicotine is also commercially available as the active ingredient in smoking replacement therapies such as nicotine gum, transdermal patches and nasal spravs.

In a 24-hour urine, approximately 5% of a nicotine dose is excreted as unchanged drug with 10% as cotinine and 35% as hydroxycotinine; the concentrations of other metabolites are believed to account for less than 5%.<sup>7</sup> While cotinine is thought to be an inactive metabolite, it's elimination profile is more stable than that of nicotine which is largely urine pH dependent. As a result, cotinine is considered a good biological marker for determining nicotine use. The plasma half-life of nicotine is approximately 60 minutes following inhalation or parenteral administration.8 Nicotine and cotinine are rapidly eliminated by the kidney; the window of detection for cotinine in urine at a cutoff level of 200 ng/mL is expected to be up to 2-3 days after nicotine use.

#### 2-ethylidene-1.5-dimethyl-3.3-diphenylpyrrolidine (EDDP)

Methadone is an unusual drug in that its primary urinary metabolites (EDDP and EMDP) are cyclic in structure, making them very difficult to detect using immunoassays targeted to the native compound.<sup>7</sup> Exacerbating this problem there is a subsection of the population classified as "extensive metabolizers" of methadone. In these individuals, a urine specimen may not contain enough parent methadone to yield a positive drug screen even if the individual is in compliance with their methadone maintenance. EDDP represents a better urine marker for methadone maintenance than unmetabolized methadone.

#### Ethyl Glucuronide (ETG)

Ethyl glucuronide (ETG) is a metabolite of ethyl alcohol which is formed in the body by glucuronidation following exposure to ethanol, usually from drinking alcoholic beverages. After Alcohol is absorbed by the body, 90-95% Alcohol is oxidized with the help of emzymes. Only 0.5%-1.5% Alcohol integrates with glucose into Ethyl Glucuronide. ETG remains in urine longer period than Alcohol. When low Alcohol volume is drunk (such as 0.1g/kg), ETG detection window varies from 13 - 20hours after drinking. However, maximum ETG detection

window can be 80 hours for high Alcohol volume drinking<sup>9,10,11,12,13</sup>

#### Fentanyl (FYL)

Fentanyl, belongs to powerful narcotics analgesics, and is a µ special opiates receptor stimulant. Fentanyl is one of the varieties that been listed in management of United Nations "Single Convention of narcotic drug in 196<sup>4</sup>. Among the opiates agents that under international control, fentanyl is one of the most commonly used to cure moderate to severe pain<sup>14</sup>. After continuous injection of fentanyl, the sufferer will have the performance of protracted opioid abstinence syndrome, such as ataxia and irritability etc<sup>15,16</sup>, which presents the addiction after taking fentanyl mainly have got the possibility of higher infection rate of HIV, more dangerous injection behavior and more lifelong medication overdose<sup>17</sup>.

#### Gabapentin (GAB)

Gabapentin is an anti-epileptic drug developed by Warner-Lanbert. It was first marketed in the UK in 1993. Gabapentin is a novel antiepileptic drug, which is a derivative of  $\gamma$ -aminobutyric acid (GABA). Its pharmacological action is different from that of existing antiepileptic drugs. Recent studies have shown that the action of Gabapentin is produced by changing GABA metabolism.

#### Synthetic Marijuana (K2)

Synthetic Marijuana or K2 a psychoactive herbal and chemical product that, when consumed, mimics the effects of Marijuana. It is best known by the brand names K2 and Spice, both of which have largely become genericized trademarks used to refer to any synthetic Marijuana product. The studies suggest that synthetic marijuana intoxication is associated with acute psychosis, worsening of previously stable psychotic disorders, and also may have the ability to trigger a chronic (long-term) psychotic disorder among vulnerable individuals such as those with a family history of mental illness.

Elevated levels of urinary metabolites are found within hours of exposure and remain detectable for 72 hours after smoking (depending on usage/dosage). As of March 1, 2011, five cannabinoids, JWH -018, JWH- 073, CP- 47, JWH- 200 and cannabicyclo hexanol are now illegal in the US because these substances have the potential to be extremely harmful and, therefore, pose an imminent hazard to the public safety.

#### AB-PINACA (K2+)

Synthetic cannabinoids are designer drugs that are structurally different from THC (the active component of cannabis) but act in similar ways to affect the cannabinoid receptor system in the brain. Over the past few years, this class of designer drugs has mainstreamed to become globally popular and increasingly problematic. Synthetic cannabinoids fall into seven major structural groups:

- 1. Naphthoylindoles (e.g. JWH-018, JWH-073)
- 2. Naphthylmethylindoles (JWH-175, JWH-184, JWH-185, JWH-199)
- 3. Naphthoylpyrroles (JWH-145, JWH-146, JWH-147, etc)
- 4. Naphthylmethylindenes (JWH-176)
- 5. Phenylacetylindoles (JWH-250, JWH-251, JWH-302)
- Cyclohexylphenols (e.g. CP 47,497)
- 7. Dibenzopyrans (classic cannabinoid structure such as. HU-210 and HU-211)

New structural group: Aminoalkylindazoles (AB-PINACA, AB-FUBINACA, AB-CHMINACA, etc.) In their original, chemical state, synthetic cannabinoids are liquid. The drugs are usually sold combined with dried herbs that emulate marijuana and are intended for smoking although powdered versions are also available. As laws are written to control these drugs with each new synthetic cannabinoid class as they are introduced to the market, the older versions (JWH-018, JWH-073) are seen less frequently than years past. The current trend shows the aminoalkylindazole based drugs such as AB-PINACA, AB-FUBINACA and AB-CHMINACA.

#### Ketamine (KET)

Ketamine is a dissociative anesthetic developed in 1963 to replace PCP (Phencyclidine). While Ketamine is still used in human anesthesia and veterinary medicine, it is becoming increasingly abused as a street drug. Ketamine is molecularly similar to PCP and thus creates similar effects including numbness, loss of coordination, sense of invulnerability, muscle rigidity, aggressive / violent behavior, slurred or blocked speech, exaggerated sense of strength, and a blank stare. There is depression of respiratory function but not of the central nervous system, and cardiovascular function is maintained. The effects of Ketamine generally last 4-6 hours following use. Ketamine is excreted in the urine as unchanged drug (2.3%) and metabolites (96.8%).

#### Kratom (KRA)

Kratom is most often used as an opium substitute, massively moderating opium addiction through a natural and organic method. It seems that opium addicts can typically use Kratom to help to overcome certain feelings and urges, cold-turkey and once the opium addiction is past, many continue to use Kratom due to its 'ceiling'. But several cases reported from the European Union and the United States have shown that it's harmful and can even lead to death. KRA can lead to drug abuse.

Lysergic acid diethylamide (LSD) LSD (Lysergic acid diethylamide), which is one of the most effective hallucinogens, but non-addictive, is used mainly as an entheogen and recreational drug. LSD is very potent, with 20 30 µg being the threshold dose. After taking it 30 to 120 minutes, the effects are realized, which can normally last from 8 - 12 hours. However, acute adverse psychiatric reactions such as anxiety, paranoia, and delusions are possible. The metabolize of LSD is very widely and rapidly, which taking 24 hours to discharge 90%, part of metabolism through the liver is 2-Oxo-3-hvdroxy-LSD.

### Methylenedioxymethamphetamine (MDMA)

Methylenedioxymethamphetamine (ecstasy) is a designer drug first synthesized in 1914 by a German drug company for the treatment of obesity.<sup>18</sup> Those who take the drug frequently report adverse effects, such as increased muscle tension and sweating. MDMA is not clearly a stimulant, although it has, in common with amphetamine drugs, a capacity to increase blood pressure and heart rate. MDMA does produce some perceptual changes in the form of increased sensitivity to light, difficulty in focusing, and blurred vision in some users. Its mechanism of action is thought to be via release of the neurotransmitter serotonin. MDMA may also release dopamine, although the general opinion is that this is a secondary effect of the drug (Nichols and Oberlender, 1990). The most pervasive effect of MDMA, occurring in virtually all people who took a reasonable dose of the drug, was to produce a clenching of the jaws.

#### 3.4-methylenedioxypyrovalerone (MDPV)

3,4-methylenedioxypyrovalerone (MDPV) is a psychoactive recreational drug with stimulant properties which acts as a norepinephrine-dopamine reuptake inhibitor (NDRI). It was first developed in the 1960s by a team at Boehringer Ingelheim. MDPV remained an obscure stimulant until around 2004 when it was reportedly sold as a designer drug. The recreational use of MDPV in the USA has become more prevalent since late 2010 and it is now illegal in many states<sup>19</sup>

Products labeled as bath salts containing MDPV were previously sold as recreational drugs in gas stations and convenience stores in the United States, similar to the marketing for Spice and K2 as incense. MDPV is the 3.4-methylenedioxy ring-substituted analog of the compound pyrovalerone, developed in the 1960s, which has been used for the treatment of chronic fatigue and as an anorectic, but caused problems of abuse and dependence. However, despite its structural similarity, the effects of MDPV bear little resemblance to other methylenedioxy phenylalkylamine derivatives such as 3,4-methylenedioxy-N-methylamphetamine (MDMA), instead producing primarily stimulant effects with only mild entactogenic qualities.

MDPV undergoes CYP450 2D6, 2C19, 1A2, and COMT phase 1 metabolism (liver) into methylcatechol and pyrrolidine, which in turn are glucuronated (uridine 5'-diphospho-glucuronosyl-transferase) allowing it to be excreted by the kidneys, with only a small fraction of the metabolites being excreted into the stools. No free pyrrolidine will be detected in the urine.

#### Methamphetamine (MET)

Methamphetamine is an addictive stimulant drug that strongly activates certain systems in the brain. Methamphetamine is closely related chemically to Amphetamine, but the central nervous system effects of Methamphetamine are greater. Methamphetamine is made in illegal laboratories and has a high potential for abuse and dependence. The drug can be taken orally. injected, or inhaled. Acute higher doses lead to enhanced stimulation of the central nervous

system and induce euphoria, alertness, reduced appetite, and a sense of increased energy and power. Cardiovascular responses to Methamphetamine include increased blood pressure and cardiac arrhythmias. More acute responses produce anxiety, paranoia, hallucinations, psychotic behavior, and eventually, depression and exhaustion.

The effects of Methamphetamine generally last 2-4 hours and the drug have a half-life of 9-24 hours in the body. Methamphetamine is excreted in the urine primarily as Amphetamine, and oxidized and deaminated derivatives. However, 10-20% of Methamphetamine is excreted unchanged. Thus, the presence of the parent compound in the urine indicates Methamphetamine use. Methamphetamine is generally detectable in the urine for 3-5 days, depending on urine pH level.

#### Morphine/Opiate (MOP/OPI)

Opiate refers to any drug that is derived from the opium poppy, including the natural products, morphine and codeine, and the semi-synthetic drugs such as heroin. Opioid is more general, referring to any drug that acts on the opioid receptor.

Opioid analgesics comprise a large group of substances which control pain by depressing the CNS. Large doses of morphine can produce higher tolerance levels, physiological dependency in users, and may lead to substance abuse. Morphine is excreted unmetabolized, and is also the major metabolic product of codeine and heroin. Morphine is detectable in the urine for several days after an opiate dose.<sup>15</sup>

#### Methylphenidate (MPD)

Methylphenidate (Ritalin), it is a central nervous stimulant, and is mainly used in the treatment of ADHD (attention deficit hyperactivity disorder), postural orthostatic tachycardia syndrome and narcolepsy. The drug is quickly eliminated and metabolized to Ritalin acid, but about 80% (about 60% are Ritalin acid), will be excreted in the urine during 24 hours. After 20 minutes of drug-intake, it can be absorbed in the stomach, At the time of 60-90min, blood concentration reaches its peak. And its half-life in blood is 5 to 6 hours. The long-term use of ADHD stimulants decrease abnormalities in brain structure and function found in subjects with ADHD<sup>20,21,22</sup>.

#### Methaqualone (MQL)

Methaqualone (Quaalude, Sopor) is a quinazoline derivative that was first synthesized in 1951 and found clinically effective as a sedative and hypnotic in 1956.<sup>7</sup> It soon gained popularity as a drug of abuse and in 1984 was removed from the US market due to extensive misuse. It is occasionally encountered in illicit form, and is also available in Europeon countries in combination with diphenhydramine (Mandrax). Methaqualone is extensively metabolized *in vivo* principally by hydroxylation at every possible position on the molecule. At least 12 metabolites have been identified in the urine.

#### Methadone (MTD)

Methadone is a narcotic analgesic prescribed for the management of moderate to severe pain and for the treatment of opiate dependence (heroin, Vicodin, Percocet, morphine). The pharmacology of oral methadone is very different from IV methadone. Oral methadone is partially stored in the liver for later use. IV methadone acts more like heroin. In most states you must go to a pain clinic or a methadone maintenance clinic to be prescribed methadone.

Methadone is a long acting pain reliever producing effects that last from twelve to forty-eight hours. Ideally, methadone frees the client from the pressures of obtaining illegal heroin, from the dangers of injection, and from the emotional roller coaster that most opiates produce. Methadone, if taken for long periods and at large doses, can lead to a very long withdrawal period. The withdrawals from methadone are more prolonged and troublesome than those provoked by heroin cessation, yet the substitution and pread removal of methadone is an acceptable method of detoxification for patients and therapists.<sup>23</sup>

#### Oxycodone (OXY)

Oxycodone is a semi-synthetic opioid with a structural similarity to codeine. The drug is manufactured by modifying thebaine, an alkaloid found in the opium poppy. Oxycodone, like all opiate agonists, provides pain relief by acting on opioid receptors in the spinal cord, brain, and possibly directly in the affected tissues. Oxycodone is prescribed for the relief of moderate to high pain under the well-known pharmaceutical trade names of OxyContin®, Tylox®, Percodan® and Percocet®. While Tylox®, Percodan® and Percocet® contain only small doses of oxycodone hydrochloride combined with other analgesics such as acetaminophen or aspirin, OxyContin consists solely of oxycodone hydrochloride in a time-release form. Oxycodone is known to metabolize by demethylation into oxymorphone and noroxycodone. In a 24-hour urine, 33-61% of a single, 5 mg oral dose is excreted with the primary constituents being unchanged drug (13-19%), conjugated drug (7-29%) and conjugated oxymorphone (13-14%). The window of detection for Oxycodone in urine is expected to be similar to that of other opioids such as morphine.

#### Phencyclidine (PCP)

Phencyclidine, also known as PCP or Angel Dust, is a hallucinogen that was first marketed as a surgical anesthetic in the 1950's. It was removed from the market because patients receiving it became delirious and experienced hallucinations.

PCP is used in powder, capsule, and tablet form. The powder is either snorted or smoked after mixing it with marijuana or vegetable matter, PCP is most commonly administered by inhalation but can be used intravenously, intra-nasally, and orally. After low doses, the user thinks and acts swiftly and experiences mood swings from euphoria to depression. Self-injurious behavior is one of the devastating effects of PCP.

PCP can be found in urine within 4 to 6 hours after use and will remain in urine for 7 to 14 days. depending on factors such as metabolic rate, user's age, weight, activity, and diet.6 PCP is excreted in the urine as an unchanged drug (4% to 19%) and conjugated metabolites (25% to 30%).<sup>24</sup>

#### Pregabalin (PGB)

Pregabalin, sold under the trade name Lyrica®, an analog of the inhibitory neurotransmitter gamma-aminobutvric acid and also of gabapentin, has been used clinically since 2002 as an analgesic, anticonvulsant and anxiolytic agent. It is supplied as the free drug in 25-300mg capsules for oral administration. Adult doses are normally within a range of 50-200mg thrice dailv.

#### Propoxyphene (PPX)

Propoxyphene (PPX) is a narcotic analgesic compound bearing structural similarity to methadone. As an analoesic, propoxyphene can be from 50-75% as potent as oral codeine. Darvocet<sup>™</sup>, one of the most common brand names for the drug, contains 50-100 mg of propoxyphene napsylate and 325-650 mg of acetaminophen. Peak plasma concentrations of propoxyphene are achieved from 1 to 2 hours post dose. In the case of overdose, propoxyphene blood concentrations can reach significantly higher levels.

In humans, proposyphene is metabolized by N-demethylation to vield norproposyphene. Norproposyphene has a longer half-life (30 to 36 hours) than parent proposyphene (6 to 12 hours). The accumulation of norpropoxyphene seen with repeated doses may be largely responsible for resultant toxicity.

#### Tricvclic Antidepressants (TCA)

TCA (Tricyclic Antidepressants) are commonly used for the treatment of depressive disorders. TCA overdoses can result in profound CNS depression, cardiotoxicity and anticholinergic effects. TCA overdose is the most common cause of death from prescription drugs. TCAs are taken orally or sometimes by injection. TCAs are metabolized in the liver. Both TCAs and their metabolites are excreted in urine mostly in the form of metabolites for up to ten days.

#### Marijuana (THC)

smoked or orally administered, THC produces euphoric effects. Users have impaired short-term memory and slowed learning. They may also experience transient episodes of confusion and anxiety. Long-term, relatively heavy use may be associated with behavioral disorders. The peak effect of marijuana administered by smoking occurs in 20-30 minutes and the duration is 90-120 minutes after one cigarette. Elevated levels of urinary metabolites are found within hours of exposure and remain detectable for 3-10 days after smoking. The main metabolite excreted in the urine is 11-nor-∆9-tetrahydrocannabinol-9-carboxylic acid (THC-COOH).

#### Tramadol (TML/TRA)

Tramadol (TML) is a guasi-narcotic analgesic used in the treatment of moderate to severe pain. It is a synthetic analog of codeine, but has a low binding affinity to the mu-opioid receptors. Large doses of tramadol can develop tolerance and physiological dependency and lead to its abuse. Tramadol is extensively metabolized after oral administration. Approximately 30% of the dose is excreted in the urine as unchanged drug, whereas 60% is excreted as metabolites. The major pathways appear to be N- and O- demethylation, glucoronidation or sulfation in the liver. Zolpidem (ZOL)

Zolpidem is a non-benzodiazepine hypnotic sold under the trade names Ambien®, Stilnox® and Edluar® for the treatment of insomnia. Zolpidem has not adequately demonstrated effectiveness in maintaining sleep, unless delivered in a controlled-release (CR) form. However, it is effective in initiating sleep. It works guickly, usually within 15 minutes, and has a short half-life of 2-3 hours. Because the characteristic of quick effect, low side effect, etc. Zolpidem has the trend of gradually replacing the barbiturates and benzodiazepine sleeping pills. The result of its widely used and easily obtained, the criminal cases showed a trend of rising. Zolpidem Phenyl-4-carboxylic acid is the major urinary metabolite of zolpidem, accounting for 51% of an administered dose. Literature references indicate the metabolite can be found in urine after ingesting a single therapeutic dose of zolpidem, for 2-3 days. Only 1% Zolpidem was extracted with original version by urine.<sup>25,26</sup>

#### Zopiclone (ZOP)

Zopiclone (brand names Imovane, Zimovane, and Dopareel) is a nonbenzodiazepine hypnotic agent used in the treatment of insomnia. Zopiclone is molecularly distinct from benzodiazepine drugs and is classed as a cyclopyrrolone. However, zopiclone increases the normal transmission of the neurotransmitter gamma-aminobutyric acid in the central nervous system, via modulating benzodiazepine receptors in the same way that benzodiazepine drugs do.

#### Alcohol (ALC)

Alcohol intoxication can lead to loss of alertness, coma, death and as well as birth defects. The BAC at which a person becomes impaired is variable. The United States Department of Transportation (DOT) has established a BAC of 0.02% (20mg/dL) as the cut-off level at which an individual is considered positive for the presence of alcohol. Determination of ethyl alcohol in urine, blood and saliva is commonly used for measuring legal impairment, alcohol poisoning, etc. Gas chromatography techniques and enzymatic methods are commercially available for the determination of ethyl alcohol in human fluids. Alcohol Rapid Test Cup is designed to detect ethyl alcohol in urine specimens.

#### Adulteration Test/Specimen Validity Test (S.V.T)

Adulteration is the tampering of a urine specimen with the intention of altering the test results. The use of adulterants can cause false negative results in drug tests by either interfering with the screening test and/or destroying the drugs present in the urine. Dilution may also be employed in an attempt to produce false negative drug test results.

One of the best ways to test for adulteration or dilution is to determine certain urinary characteristics such as pH, specific gravity and creatinine and to detect the presence of oxidants/PCC, nitrites or glutaraldehyde in urine.

Oxidants/PCC (Pyridiniumchlorochromate) tests for the presence of oxidizing agents such as bleach and hydrogen peroxide. Pyridiniumchlorochromate (sold under the brand name UrineLuck) is a commonly used adulterant.8 Normal human urine should not contain oxidants of PCC.

Specific gravity tests for sample dilution. The normal range is from 1.003 to 1.030. Values outside this range may be the result of specimen dilution or adulteration.

**pH** tests for the presence of acidic or alkaline adulterants in urine. Normal pH levels should be in the range of 4.0 to 9.0. Values outside of this range may indicate the sample has been altered.

Nitrite tests for commonly used commercial adulterants such as Klear and Whizzies. They work by oxidizing the major cannabinoid metabolite THC-COOH.<sup>9</sup> Normal urine should contain no trace of nitrite. Positive results generally indicate the presence of an adulterant.

Glutaraldehyde tests for the presence of an aldehyde. Adulterants such as UrinAid and Clear Choice contain glutaraldehyde which may cause false negative results by disrupting the enzyme used in some immunoassay tests.<sup>9</sup> Glutaraldehyde is not normally found in urine; therefore, detection of glutaraldehyde in a urine specimen is generally an indicator of adulteration.

Creatinine is a waste product of creatine; an amino-acid contained in muscle tissue and found in urine.<sup>2</sup> A person may attempt to foil a test by drinking excessive amounts of water or diuretics such as herbal teas to "flush" the system. Creatinine and specific gravity are two ways to check for dilution and flushing, which are the most common mechanisms used in an attempt to circumvent drug testing. Low Creatinine and specific gravity levels may indicate dilute urine. The absence of Creatinine (<5 mg/dl) is indicative of a specime not consistent with human urine.

#### (PRINCIPLE)

During testing, a urine specimen migrates upward by capillary action. A drug, if present in the urine specimen below its cut-off concentration, will not saturate the binding sites of its specific antibody. The antibody will then react with the drug-protein conjugate and a visible colored line will show up in the test region of the specific drug strip. The presence of drug above the cut-off concentration will saturate all the binding sites of the antibody. Therefore, the colored line will not form in the test region.

A drug-positive urine specimen will not generate a colored line in the specific test region of the strip because of drug competition, while a drug-negative urine specimen will generate a line in the test region because of the absence of drug competition.

To serve as a procedural control, a colored line will always appear at the control region,

indicating that proper volume of specimen has been added and membrane wicking has occurred.

#### For ALC strip:

Alcohol Rapid Test Strip is based on the high specifity of alcohol oxidase (ALOx) for ethyl alcohol in the presence of peroxidase and enzyme substrate such as tetramethylbenzidine (TMB) as shown in the following:

# EtOH + TMB

# ALOx/Peroxidase

# CH<sub>3</sub>CHO + Colored TMB

The distinct color on reactive pad could be observed in less than 60 seconds after the reaction pad was wetted with urine specimens with the ethyl alcohol concentration greater than 0.04%(40mg/dL). It should be pointed out that other alcohols such as methyl, propanyl and ethyl alcohol would develop the similar color on the reactive pad. However, these alcohols are not normally present in human urine.

#### For adulteration strip:

The adulteration strips contain chemically treated reagent pads. Three to five minutes following the activation of the reagent pads by the urine sample, the colors that appear on the pads can be compared with the printed color chart card. The color comparison provides a semi-quantitative screen for any combination of oxidants/pyridiniumchlorochromate (PCC), specific gravity, pH, nitrite, glutaraldehyde and creatinine in human urine which can help to assess the integrity of the urine sample.

#### [REAGENTS]

Each test line contains anti-drug mouse monoclonal antibody and corresponding drug-protein conjugates. The control line contains goat anti-rabbit IgG polyclonal antibodies and rabbit IgG.

#### [PRECAUTIONS]

- · For healthcare professionals including professionals at point of care sites.
- Immunoassay for *invitro* diagnostic use only. The test should remain in the sealed pouch until use.
- All specimens should be considered potentially hazardous and handled in the same manner as an infectious agent.
- The used test should be discarded according to federal, state and local regulations.

#### **[**STORAGE AND STABILITY]

Store as packaged in the sealed pouch at 2-30°C. The test is stable through the expiration date printed on the sealed pouch. The test must remain in the sealed pouch until use. **DO NOT FREEZE**. Do not use beyond the expiration date.

#### **[SPECIMEN COLLECTION AND PREPARATION]**

#### Urine Assay

The urine specimen should be collected in a clean and dry container. Urine collected at any time of the day may be used. Urine specimens exhibiting visible precipitates should be centrifuged, filtered, or allowed to settle to obtain a clear specimen for testing.

#### Specimen Storage

Urine specimens may be stored at  $2\cdot 8^{\circ}$ C for up to  $4\overline{8}$  hours prior to testing. For prolonged storage, specimens may be frozen and stored below -20°C. Frozen specimens should be thawed and mixed well before testing.

## [MATERIALS]

#### Materials Provided

Test Device

- Package insert
- Adulteration Color Chart (when applicable)

# e) • ALC Color Card (when applicable)

# Materials Required but Not Provided

Specimen collection container
 timer
 **URECTIONS FOR USE** 

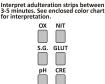
Allow the test, urine specimen, and/or controls to equilibrate to room temperature (15-30°C) prior to testing.

- Remove the test device from the sealed pouch. If required by your process, write the donor name or ID in the provided space.
- 2. Collect urine into clean container.
- 3. Remove the cap, with the arrows pointing downward, dip the card into the urine specimen.
- If the volume of the urine specimen excesses the sampling window, immerse the test device into the urine specimen for minimum of 1 second. Replace the cap and place the card on a flat surface.
- 5. If the volume of urine specimen lower than the sampling window, dip the card into the urine

specimen for at least 20 seconds. Replace the card and place the card in a flat surface. Alternatively, the test device can remain in the specimen throughout the testing process.

- 6. Read the adulteration strips between 3-5 minutes (when applicable) compare the colors on the adulteration pads to the enclosed color chart. If the specimen indicates adulteration, refer to your Drug Free Policy for guidelines on adulterated specimens. We recommend not to interpret the drug test results and either retest the urine or collect another specimen.
- 7. Read the ALC strips between 2-3 minutes (when applicable) compare the colors on the ALC pads to the enclosed color chart.
- 8. Read drug test results at 5 minutes. Results remain stable for 10 minutes. Mutil-drug test:





Interpret ALC strip between 2-3 minutes. See enclosed color chart for interpretation.

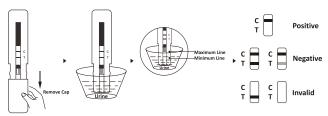




Read the drug strips at 5 minutes.



## Sinale druas test:



#### *INTERPRETATION OF RESULTS*

Read results after 5 minutes. Do not read results past 10 minutes. A red or pink line must appear next to the "C" (control) on all of the test strips. The appearance of a red or pink line next to the "C" on each test strip indicates that the test has worked properly.

#### Negative Result:

A red or pink line next to the "T1" or "T2" (drug test line) under the drug name indicates a negative result for that drug. If a test line appears next to the "T1" or "T2" for all drugs, the sample is considered negative. Certain lines may appear lighter or thinner than other lines.





#### С т2 T(+) T1(+)POSITIVE (+)

#### Preliminary Positive Result:

If NO red or pink line appears next to the "T1" or "T2" under the drug name, the sample may contain that drug. Send the sample to a laboratory for confirmation testing.

#### Invalid Result:

A colored line should always appear next to the letter "C" on every test strip. If no control line appears on any of test strips, the result is invalid.



#### INVALID

#### **[**S.V.T/ ADULTERATION INTERPRETATION ]

(Please refer to the color chart)

Semi Quantitative results are obtained by visually comparing the reacted color blocks on the strip to the printed color blocks on the color chart. No instrumentation is required.

ALC: Negative: Almost no color change by comparing with the background. The

negative result indicates that the alcohol concentration is less than 0.04% (40mg/dL). Positive Blue or green color developed all over the pad. The positive result indicates that the

urine alcohol concentration is 0.04% (40mg/dL) or higher.

Invalid: The test should be considered invalid If only the edge of the reactive pad turned color that might be ascribed to insufficient sampling. The subject should be re-tested.

#### [QUALITY CONTROL]

A procedural control is included in the test. A line appearing in the control region (C) is considered an internal procedural control. It confirms adequate membrane wicking.

Control standards are not supplied with this kit. However, it is recommended that positive and negative controls be tested as good laboratory practice to confirm the test procedure and to verify proper test performance.

#### [LIMITATIONS]

- The Drug Rapid Test provides only a qualitative, preliminary analytical result. A secondary analytical method must be used to obtain a confirmed result. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method.<sup>1,2,3</sup>
- There is a possibility that technical or procedural errors, as well as interfering substances in the urine specimen may cause erroneous results.
- Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. If adulteration is suspected, the test should be repeated with another urine specimen.
- A positive result does not indicate level or intoxication, administration route or concentration in urine.
- A negative result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cut-off level of the test.
- 6. This test does not distinguish between drugs of abuse and certain medications.
- 7. A positive test result may be obtained from certain foods or food supplements.

#### [S.V.T/ ADULTERATION LIMITATIONS]

- The adulteration tests included with the product are meant to aid in the determination of abnormal specimens. While comprehensive, these tests are not meant to be an "all-inclusive" representation of possible adulterants.
- Oxidants/PCC: Normal human urine should not contain oxidants or PCC. The presence of high levels of antioxidants in the specimen, such as ascorbicacid, may result in false negative results for the oxidants/PCC pad.
- Specific Gravity: Elevated levels of protein in urine may cause abnormally high specific gravity values.
- Nitrite: Nitrite is not a normal component of human urine. However, nitrite found in urine may indicate urinary tract infections or bacterial infections. Nitrite levels of > 20 mg/dL may produce false positive glutaraldehyde results.
- Glutaraldehyde: is not normally found in urine. However certain metabolicabnormalities such as ketoacidosis (fasting, uncontrolled diabetes or high protein diets) may interfere with the test results.
- Creatinine: Normal Creatinine levels are between 20 and 350mg/dL. Under rare conditions, certain kidney diseases may show dilute urine.

#### [EXPECTED VALUES]

This negative result indicates that the drug concentration is below the detectable level. Positive result means the concentration of drug is above the detectable level.

### [PERFORMANCE CHARACTERISTICS]

#### Accuracy

A side-by-side comparison was conducted using the Test and commercially available drug Rapid

Test test devices. Testing was performed on approximately 250 specimens per drug type previously collected from subjects presenting for Drug Screen Testing. Presumptive positive results were confirmed by GC/MS, LC/MS.

| Met     | hod       | GC/MS o  | r LC/MS  | % agreement with GC/MS |  |  |
|---------|-----------|----------|----------|------------------------|--|--|
| Drug Ra | apid Test | Positive | Negative | LC/MS                  |  |  |
| 6-MAM   | Positive  | 36       | 0        | >99%                   |  |  |
| 10      | Negative  | 0        | 128      | >99%                   |  |  |
| AMP     | Positive  | 161      | 4        | 97.0%                  |  |  |
| 1,000   | Negative  | 5        | 210      | 98.1%                  |  |  |
| AMP     | Positive  | 165      | 5        | 98.8%                  |  |  |
| 500     | Negative  | 2        | 208      | 97.7%                  |  |  |
| AMP     | Positive  | 168      | 3        | 99.4%                  |  |  |
| 300     | Negative  | 1        | 208      | 98.6%                  |  |  |
| BAR     | Positive  | 129      | 2        | 93.5%                  |  |  |
| 300     | Negative  | 9        | 160      | 98.8%                  |  |  |
| BAR     | Positive  | 135      | 2        | 94.4%                  |  |  |
| 200     | Negative  | 8        | 155      | 98.7%                  |  |  |
| BUP     | Positive  | 99       | 1        | 99.0%                  |  |  |
| 10      | Negative  | 1        | 149      | 99.3%                  |  |  |
| BZO     | Positive  | 135      | 2        | 96.4%                  |  |  |
| 500     | Negative  | 5        | 158      | 98.8%                  |  |  |
| BZO     | Positive  | 136      | 2        | 97.1%                  |  |  |
| 300     | Negative  | 4        | 158      | 98.8%                  |  |  |
| BZO     | Positive  | 137      | 2        | 97.2%                  |  |  |
| 200     | Negative  | 4        | 157      | 98.7%                  |  |  |
| BZO     | Positive  | 138      | 2        | 97.9%                  |  |  |
| 100     | Negative  | 3        | 157      | 98.7%                  |  |  |
| CLO/ACL | Positive  | 27       | 1        | >99,9%                 |  |  |
| 100     | Negative  | 0        | 42       | 97.7%                  |  |  |
| COC     | Positive  | 120      | 8        | 97.6%                  |  |  |
| 300     | Negative  | 3        | 169      | 95.4%                  |  |  |
| COC     | Positive  | 105      | 0        | 99.1%                  |  |  |
| 150     | Negative  | 1        | 144      | >99.9%                 |  |  |
| COC     | Positive  | 126      | 12       | 98.4%                  |  |  |
| 100     | Negative  | 2        | 165      | 93.2%                  |  |  |
| COT     | Positive  | 87       | 4        | 94.6%                  |  |  |
| 200     | Negative  | 5        | 154      | 97.4%                  |  |  |
| COT     | Positive  | 91       | 3        | 95.8%                  |  |  |
| 100     | Negative  | 4        | 152      | 98.1%                  |  |  |
| EDDP    | Positive  | 82       | 5        | 98.8%                  |  |  |
| 300     | Negative  | 1        | 112      | 95.7%                  |  |  |
| EDDP    | Positive  | 87       | 6        | 96.7%                  |  |  |
| 100     | Negative  | 3        | 104      | 94.5%                  |  |  |
| ETG     | Positive  | 178      | 2        | 97.8%                  |  |  |
| 500     | Negative  | 4        | 221      | 99.1%                  |  |  |
| FYL     | Positive  | 22       | 0        | >99%                   |  |  |
| 20      | Negative  | 0        | 40       | 99.1%                  |  |  |
| FYL     | Positive  | 60       | 0        | >99 %                  |  |  |
| 10      | Negative  | 0        | 45       | >99 %                  |  |  |
| GAB     | Positive  | 47       | 1        | 97.9%                  |  |  |
| 2000    | Negative  | 1        | 40       | >99%                   |  |  |
| K2      | Positive  | 62       | 3        | 96.9%                  |  |  |
| 50      | Negative  | 2        | 233      | 98.7%                  |  |  |
| K2      | Positive  | 66       | 3        | 98.5%                  |  |  |
| 30      | Negative  | 1        | 230      | 98.7%                  |  |  |
| K2      | Positive  | 4        | 0        | >99%                   |  |  |

| Meti       |           | GC/MS of | or LC/MS | % agreement with GC/MS |  |  |
|------------|-----------|----------|----------|------------------------|--|--|
| Drug Ra    | ipid Test | Positive | Negative | LC/MS                  |  |  |
| 10         | Negative  | 0        | 40       | >99%                   |  |  |
| KET        | Positive  | 102      | 9        | 94.4%                  |  |  |
| 1,000      | Negative  | 6        | 133      | 93.7%                  |  |  |
| KET        | Positive  | 113      | 9        | 96.6%                  |  |  |
| 500        | Negative  | 4        | 124      | 93.2%                  |  |  |
| KET        | Positive  | 109      | 11       | 94.0%                  |  |  |
| 300        | Negative  | 7        | 123      | 91.8%                  |  |  |
| KRA        | Positive  | 18       | 1        | >99%                   |  |  |
| 100        | Negative  | 0        | 42       | 97.67%                 |  |  |
| LSD        | Positive  | 143      | 2        | 97.3%                  |  |  |
| 50         | Negative  | 4        | 218      | 99.1%                  |  |  |
| MDMA       | Positive  | 129      | 0        | 99.2%                  |  |  |
| 1,000      | Negative  | 1        | 180      | >99.9%                 |  |  |
| MDMA       | Positive  | 132      | 1        | >99.9%                 |  |  |
| 500        | Negative  | 0        | 172      | 99.4%                  |  |  |
| MDPV       | Positive  | 22       | 0        | >99%                   |  |  |
| 3,000      | Negative  | 0        | 128      | >99%                   |  |  |
| MDPV       | Positive  | 22       | 0        | >99%                   |  |  |
| 1,000      | Negative  | 0        | 128      | >99%                   |  |  |
| MET        | Positive  | 165      | 9        | >99.9%                 |  |  |
| 1,000      | Negative  | 0        | 176      | 95.1%                  |  |  |
| MET        | Positive  | 168      | 6        | >99.9%                 |  |  |
| 500        | Negative  | 0        | 176      | 96.7%                  |  |  |
| MET        | Positive  | 169      | 5        | >99.9%                 |  |  |
| 300        | Negative  | 0        | 176      | 97.2%                  |  |  |
| MOP/OPI    | Positive  | 141      | 6        | 99.3%                  |  |  |
| 300        | Negative  | 1        | 164      | 97.6%                  |  |  |
| MOP/OPI    | Positive  | 141      | 6        | 99.3%                  |  |  |
| 200        | Negative  | 1        | 164      | 97.6%                  |  |  |
| MOP/OPI    | Positive  | 142      | 5        | >99.9%                 |  |  |
| 100        | Negative  | 0        | 163      | 97.0%                  |  |  |
| MPD        | Positive  | 153      | 3        | 98.1%                  |  |  |
| 150        | Negative  | 3        | 226      | 98.7%                  |  |  |
| MQL        | Positive  | 98       | 2        | 99.0%                  |  |  |
| 300        | Negative  | 1        | 149      | 98.7%                  |  |  |
| MTD        | Positive  | 123      | 4        | 99.2%                  |  |  |
| 300        | Negative  | 1        | 172      | 97.7%                  |  |  |
| MTD        | Positive  | 123      | 4        | 99.2%                  |  |  |
| 200        | Negative  | 1        | 172      | 97.7%                  |  |  |
| OPI        | Positive  | 95       | 10       | >99.9%                 |  |  |
| 2,000      | Negative  | 0        | 145      | 93.5%                  |  |  |
| OPI        | Positive  | 95       | 10       | >99.9%                 |  |  |
| 1,000      | Negative  | 0        | 145      | 93.5%                  |  |  |
| OXY        | Positive  | 104      | 1        | 98.1%                  |  |  |
| 100        | Negative  | 2        | 143      | 99.3%                  |  |  |
| PCP        | Positive  | 131      | 1        | >99.9%                 |  |  |
| 25         | Negative  | 0        | 181      | 99.5%                  |  |  |
| PGB        | Positive  | 29       | 0        | >99%                   |  |  |
| 2,000      | Negative  | 0        | 110      | >99%                   |  |  |
| PGB        | Positive  | 12       | 0        | >99%                   |  |  |
| 700        | Negative  | 0        | 75       | >99%                   |  |  |
| PGB        | Positive  | 29       | 0        | >99%                   |  |  |
| PGB<br>500 | Negative  | 0        | 110      | >99%                   |  |  |

| Met     | Method          |     | or LC/MS | % agreement with GC/MS or |
|---------|-----------------|-----|----------|---------------------------|
| Drug Ra | Drug Rapid Test |     | Negative | LC/MS                     |
| PPX     | Positive        | 95  | 3        | 96.0%                     |
| 300     | Negative        | 4   | 148      | 98.0%                     |
| TCA     | Positive        | 122 | 15       | 97.6%                     |
| 1000    | Negative        | 3   | 210      | 93.3%                     |
| TCA     | Positive        | 122 | 15       | 97.6%                     |
| 500     | Negative        | 3   | 210      | 93.3%                     |
| THC     | Positive        | 127 | 5        | 97.7%                     |
| 150     | Negative        | 3   | 185      | 97.4%                     |
| THC     | Positive        | 137 | 6        | 97.8%                     |
| 50      | Negative        | 3   | 184      | 96.8%                     |
| THC     | Positive        | 117 | 9        | 99.2%                     |
| 25      | Negative        | 1   | 193      | 95.5%                     |
| THC     | Positive        | 117 | 9        | 99.2%                     |
| 20      | Negative        | 1   | 193      | 95.5%                     |
| THC 600 | Positive        | 48  | 0        | 96.0 %                    |
| THC 600 | Negative        | 2   | 100      | 100 %                     |
| TML/TRA | Positive        | 98  | 2        | 99.0%                     |
| 300     | Negative        | 1   | 149      | 98.7%                     |
| TML/TRA | Positive        | 98  | 2        | 99.0%                     |
| 100     | Negative        | 1   | 149      | 98.7%                     |
| ZOL     | Positive        | 148 | 2        | 98.0%                     |
| 50      | Negative        | 3   | 236      | 99.2%                     |
| ZOP     | Positive        | 35  | 2        | 97.2%                     |
| 50      | Negative        | 1   | 46       | 95.8%                     |

| Alcohol    | Results  | >0.04% (Spiked) | 0  | %Agreement |
|------------|----------|-----------------|----|------------|
| Rapid Test | Positive | 26              | 0  | 96%        |
| Cup        | Negative | 1               | 29 | >99.9%     |

Clinical samples for each drug were run using each of the Drug Rapid Test by an untrained operator at a professional point of care site. Based on GC/MS data, the operator obtained statistically similar positive agreement, negative agreement and overall agreement rates as trained laboratory personnel.

#### Precision

A study was conducted at three hospitals by untrained operators using three different lots of products to demonstrate the within run, between run and between operator precision. An identical card of coded specimens, containing drugs at concentrations of  $\pm$  50% and  $\pm$  25% cut-off level, was labeled, blinded and tested at each site. The results are given below:

#### 6-MONOACETYLMORPHINE (6-MAM10)

| 6-monoacetylmorphine  | n per | Sit | e A | Sit | e B | Site | еC |
|-----------------------|-------|-----|-----|-----|-----|------|----|
| Concentration (ng/mL) | Site  | -   | +   | -   | +   | -    | +  |
| 0                     | 10    | 10  | 0   | 10  | 0   | 10   | 0  |
| 5                     | 10    | 10  | 0   | 10  | 0   | 10   | 0  |
| 7.5                   | 10    | 9   | 1   | 9   | 1   | 9    | 1  |
| 12.5                  | 10    | 1   | 9   | 1   | 9   | 2    | 8  |
| 15                    | 10    | 0   | 10  | 0   | 10  | 0    | 10 |

## AMPHETAMINE (AMP 1,000)

| Amphetamine   | n per | Sit | e A | Sit | e B | Site | e C |
|---------------|-------|-----|-----|-----|-----|------|-----|
| conc. (ng/mL) | site  | -   | +   | -   | +   | -    | +   |
| 0             | 10    | 10  | 0   | 10  | 0   | 10   | 0   |
| 500           | 10    | 10  | 0   | 10  | 0   | 10   | 0   |
| 750           | 10    | 9   | 1   | 8   | 2   | 8    | 2   |
| 1,250         | 10    | 2   | 8   | 2   | 8   | 2    | 8   |
| 1,500         | 10    | 0   | 10  | 0   | 10  | 0    | 10  |

AMPHETAMINE (AMP 500)

| Amphetamine                           | n per                   | Sit           | e A         | Sit           | e B         | Sit           | e C         |
|---------------------------------------|-------------------------|---------------|-------------|---------------|-------------|---------------|-------------|
| conc. (ng/mL)                         | site                    | -             | +           | -             | +           |               | +           |
| 0                                     | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 250                                   | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 375                                   | 10                      | 8             | 2           | 8             | 2           | 8             | 2           |
| 625                                   | 10                      | 2             | 8           | 2             | 8           | 2             | 8           |
| 750                                   | 10                      | 0             | 10          | 0             | 10          | 0             | 10          |
| AMPHETAMINE (AMP 300)                 | 10                      | v             | 10          | v             | 10          | Ū             | 10          |
| Amphetamine                           | n per                   | Sit           | e A         | Sit           | e B         | Sit           | e C         |
| conc. (ng/mL)                         | site                    | -             | +           |               | +           |               | +           |
| 0                                     | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 150                                   | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 225                                   | 10                      | 7             | 3           | 8             | 2           | 8             | 2           |
| 375                                   | 10                      | 2             | 8           | 2             | 8           | 2             | 8           |
| 450                                   | 10                      | 0             | 10          | 0             | 10          | 0             | 10          |
| BARBITURATES (BAR 300)                |                         | v             | 10          | v             | 10          | Ū             | 10          |
| Secobarbital                          | n per                   | Sit           | e A         | Sit           | e B         | Sit           | e C         |
| conc. (ng/mL)                         | site                    | -             | +           | -             | +           | -             | +           |
| 0                                     | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 150                                   | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 225                                   | 10                      | 9             | 1           | 8             | 2           | 8             | 2           |
| 375                                   | 10                      | 2             | 8           | 1             | 9           | 2             | 8           |
| 450                                   | 10                      | 0             | 10          | 0             | 10          | 0             | 10          |
| BARBITURATES (BAR 200)                |                         | Ũ             | 10          | ů             | 10          | ů             | 10          |
| Secobarbital                          | n per                   | Sit           | e A         | Sit           | e B         | Site C        |             |
| conc. (ng/mL)                         | site                    | -             | +           | -             | +           | -             | +           |
| 0                                     | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 100                                   | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 150                                   | 10                      | 9             | 1           | 9             | 1           | 8             | 2           |
| 250                                   | 10                      | 2             | 8           | 1             | 9           | 1             | 9           |
| 300                                   | 10                      | 0             | 10          | 0             | 10          | 0             | 10          |
| BUPRENORPHINE (BUP)                   |                         |               |             |               |             |               |             |
| Buprenorphine                         | n per                   | Sit           | e A         | Sit           | eВ          | Sit           | e C         |
| conc. (ng/mL)                         | site                    | -             | +           | -             | +           | -             | +           |
| 0                                     | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 5                                     | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 7.5                                   | 10                      | 9             | 1           | 8             | 2           | 8             | 2           |
| 12.5                                  | 10                      | 1             | 9           | 1             | 9           | 1             | 9           |
| 15                                    | 10                      | 0             | 10          | 0             | 10          | 0             | 10          |
| BENZODIAZEPINES (BZO 5                | 500)                    |               |             |               |             |               |             |
| Oxazepam                              | n per                   | Sit           | e A         | Sit           | e B         | Sit           | e C         |
| conc. (ng/mL)                         | site                    | -             | +           | -             | +           | -             | +           |
| 0                                     | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 250                                   | 10                      | 10            | 0           | 10            | 0           | 10            | 0           |
| 375                                   | 10                      | 8             | 2           | 9             | 1           | 9             | 1           |
| 625                                   | 10                      | 1             | 9           | 1             | 9           | 1             | 9           |
| 750                                   | 10                      | 0             | 10          | 0             | 10          | 0             | 10          |
| <b>BENZODIAZEPINES (BZO 3</b>         | 300)                    |               |             |               |             |               |             |
| · · · · · · · · · · · · · · · · · · · | n per                   | Sit           | e A         | Sit           | e B         | Sit           | e C         |
| Oxazepam                              |                         |               | · .         |               | +           | -             | +           |
| Oxazepam<br>conc. (ng/mL)             | site                    | -             | +           | -             |             | -             |             |
|                                       |                         | -<br>10       | +<br>0      | 10            | 0           | 10            | 0           |
| conc. (ng/mL)                         | site                    | -<br>10<br>10 |             |               |             |               |             |
| conc. (ng/mL)                         | site<br>10              | -             | 0           | 10            | 0           | 10            | 0           |
| conc. (ng/mL)<br>0<br>150             | <b>site</b><br>10<br>10 | 10            | 0           | 10<br>10      | 0           | 10<br>10      | 0           |
| conc. (ng/mL)<br>0<br>150<br>225      | site<br>10<br>10<br>10  | 10<br>9       | 0<br>0<br>1 | 10<br>10<br>9 | 0<br>0<br>1 | 10<br>10<br>9 | 0<br>0<br>1 |

# BENZODIAZEPINES (BZO 200)

|  | 200)<br>n per   | Cit.   | e A   | Site  | D D  | Cit.   | вC   |
|--|---|--|---|---|--|--|--|
| Oxazepam<br>conc. (ng/mL)  | site  | 31   | +   |   | з <b>Б</b><br>+  | 310  | +  |
| 0  | 10  | 10   | 0   | 10  | 0  | 10   | 0  |
| 100  | 10  | 10   | 0   | 10  | 0  | 10   | 0  |
| 150  | 10  | 8  | 2   | 8   | 2  | 9  | 1  |
| 250  | 10  | 1  | 9   | 1   | 9  | 1  | 9  |
| 300  | 10  | 0  | 10  | 0   | 10   | 0  | 10   |
| BENZODIAZEPINES (BZO 1   |   | 0  | 10  | 0   | 10   | 0  | 10   |
|  |   | Sit  | e A   | Site  | P  | Sit  | e C  |
| Oxazepam<br>conc. (ng/mL)  | n per<br>site   | 31   | +   | 310   | +  | 310  | +  |
|  | 10  | - 10   | 0   | - 10  | 0  | - 10   | 0  |
| 50   | 10  | 10   | 0   | 10  | 0  | 10   | 0  |
| 75   | 10  | 9  | 1   | 8   | 2  | 9  | 1  |
| 125  | 10  | 1  | 9   | 1   | 9  | 2  | 8  |
| 150  | 10  | 0  | 10  | 0   | 10   | 0  | 10   |
| CLONAZEPAM (CLO/ACL 1  |   | 0  | 10  | 0   | 10   | 0  | 10   |
| 7-Aminoclonazepam  | n per   | 0.14   | e A   | Site  | P  | Sit  |  |
| conc. (ng/mL)  | site  | - 30   | +<br>+  | -   | з <b>Б</b><br>+  | -  | +  |
| 0  | 10  | 10   | 0   | 10  | 0  | 10   | 0  |
| 50   | 10  | 10   | 0   | 10  | 0  | 10   | 0  |
| 75   | 10  | 8  | 2   | 6   | 4  | 9  | 1  |
| 125  | 10  | 1  | 9   | 2   | 8  | 3  | 7  |
| 125  | 10  | 0  | 9<br>10   | 2   | 10   | 0  | 10   |
| COCAINE (COC 300)  | 10  | 0  | 10  | 0   | 10   | 0  | 10   |
|  |   | 0.14   |   | Site B  |  | Site C   |  |
| Benzoylecgonine<br>conc. (ng/mL)   | n per<br>site   | - Sit  | e A   | - Site  |  | - Site   | eC<br>+  |
|  |   | - 10   | +   | - 10  | +  | - 10   | +<br>0   |
| -  | 10  | -  | 0   | 10  |  | -  |  |
| 150  | 10  | 10   | 0   | -   | 0  | 10   | 0  |
| 225<br>375   | 10<br>10  | 9  |   | 8   | 2  | 8  | 2  |
|  | 10  | 1  | 9<br>10   | 1   | 9<br>10  | 1  | 9  |
| 450  | 10  | 0  | 10  | 0   | 10   | U  | 10   |
| COCAINE (COC 150)  | 1   | 0.1  | Site A Site B   |   |  | 0.1  |  |
| Benzoylecgonine  | n per   | Sit  | -   | Site  |  | Sit  | -  |
|  |   |  |   |   |  |  |  |
| conc. (ng/mL)  | site  | -  | +   | -   | +  | -  | +  |
| conc. (ng/mL)<br>0   | 10  | - 10   | 0   | - 10  | 0  | - 10   | 0  |
| conc. (ng/mL)<br>0<br>75   | 10<br>10  | 10   | 0   | 10  | 0  | 10   | 0  |
| conc. (ng/mL)<br>0<br>75<br>112.5  | 10<br>10<br>10  | 10<br>8  | 0<br>0<br>2   | 10<br>8   | 0<br>0<br>2  | 10<br>8  | 0<br>0<br>2  |
| conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5   | 10<br>10<br>10<br>10  | 10<br>8<br>1   | 0<br>0<br>2<br>9  | 10<br>8<br>1  | 0<br>0<br>2<br>9   | 10<br>8<br>1   | 0<br>0<br>2<br>9   |
| conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225  | 10<br>10<br>10  | 10<br>8  | 0<br>0<br>2   | 10<br>8   | 0<br>0<br>2  | 10<br>8  | 0<br>0<br>2  |
| conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>COCAINE (COC 100)   | 10<br>10<br>10<br>10<br>10  | 10<br>8<br>1<br>0  | 0<br>0<br>2<br>9<br>10  | 10<br>8<br>1<br>0   | 0<br>0<br>2<br>9<br>10   | 10<br>8<br>1<br>0  | 0<br>0<br>2<br>9<br>10   |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine   | 10<br>10<br>10<br>10<br>10<br><b>n per</b>  | 10<br>8<br>1<br>0<br>Sit   | 0<br>0<br>2<br>9<br>10<br>e A   | 10<br>8<br>1<br>0<br>Site   | 0<br>0<br>2<br>9<br>10   | 10<br>8<br>1<br>0<br>Site  | 0<br>0<br>2<br>9<br>10   |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)   | 10<br>10<br>10<br>10<br>10<br><b>n per</b><br>site                                | 10<br>8<br>1<br>0<br>Sit   | 0<br>0<br>2<br>9<br>10<br>e A<br>+  | 10<br>8<br>1<br>0<br>Site   | 0<br>0<br>2<br>9<br>10<br>₽<br><b>B</b><br>+   | 10<br>8<br>1<br>0<br>Site  | 0<br>2<br>9<br>10<br>• C<br>+  |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)           0   | 10<br>10<br>10<br>10<br>10<br><b>n per</b><br><b>site</b><br>10                   | 10<br>8<br>1<br>0<br>Sit<br>-<br>10  | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0   | 10<br>8<br>1<br>0<br>Site<br>-<br>10  | 0<br>0<br>2<br>9<br>10<br>• B<br>+<br>0  | 10<br>8<br>1<br>0<br>Site<br>-<br>10   | 0<br>0<br>2<br>9<br>10<br>• C<br>+<br>0  |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)           0           50  | 10<br>10<br>10<br>10<br>10<br><b>n per</b><br><b>site</b><br>10<br>10             | 10<br>8<br>1<br>0<br>Sit<br>-<br>10<br>10  | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>0  | 10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10  | 0<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0   | 10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10   | 0<br>0<br>2<br>9<br>10<br>• C<br>+<br>0<br>0   |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine<br>conc. (ng/mL)           0           50           75  | 10<br>10<br>10<br>10<br>10<br>10<br><b>n per</b><br><b>site</b><br>10<br>10<br>10 | 10<br>8<br>1<br>0<br>Sit<br>-<br>10<br>10<br>9   | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>0<br>1   | 10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9  | 0<br>0<br>2<br>9<br>10<br><b>B</b><br><b>+</b><br>0<br>0<br>1  | 10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10<br>9  | 0<br>0<br>2<br>9<br>10<br><b>e C</b><br><b>+</b><br>0<br>0<br>1  |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)           0           50           75           125   | 10<br>10<br>10<br>10<br>10<br>10<br><b>n per</b><br><b>site</b><br>10<br>10<br>10 | 10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9<br>2  | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>0<br>1<br>8  | 10<br>8<br>1<br>0<br><b>Site</b><br>-<br>10<br>10<br>9<br>1   | 0<br>0<br>2<br>9<br>10<br><b>B</b><br><b>+</b><br>0<br>0<br>1<br>9   | 10<br>8<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9<br>1                                 | 0<br>0<br>2<br>9<br>10<br><b>e C</b><br><b>+</b><br>0<br>0<br>1<br>9   |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)           0           50           75           125           150   | 10<br>10<br>10<br>10<br>10<br>10<br><b>n per</b><br><b>site</b><br>10<br>10<br>10 | 10<br>8<br>1<br>0<br>Sit<br>-<br>10<br>10<br>9   | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>0<br>1   | 10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9  | 0<br>0<br>2<br>9<br>10<br><b>B</b><br><b>+</b><br>0<br>0<br>1  | 10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10<br>9  | 0<br>0<br>2<br>9<br>10<br><b>e C</b><br><b>+</b><br>0<br>0<br>1  |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)           0           50           75           125           150           COTININE (COT 200)  | 10<br>10<br>10<br>10<br>10<br>10<br><b>n per</b><br>site<br>10<br>10<br>10<br>10  | 10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9<br>2<br>0   | 0<br>0<br>2<br>9<br>10<br>• <b>A</b><br>• <b>0</b><br>0<br>1<br>8<br>10   | 10<br>8<br>1<br>0   | 0<br>0<br>2<br>9<br>10<br>• <b>B</b><br>•<br>0<br>0<br>1<br>9<br>10  | 10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9<br>1<br>0                                 | 0<br>0<br>2<br>9<br>10<br>• C<br>• C<br>• 0<br>0<br>1<br>9<br>10   |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine<br>conc. (ng/mL)           0           50           75           125           150           COTININE (COT 200)           Cotinine  | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1   | 10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>2<br>0<br>Sitt  | 0<br>0<br>2<br>9<br>10<br>• A<br>•<br>0<br>0<br>1<br>8<br>10<br>• A   | 10<br>8<br>1<br>0<br>Sitt<br>10<br>10<br>9<br>1<br>0<br>Sitt  | 0<br>0<br>2<br>9<br>10<br>• <b>B</b><br>• 1<br>0<br>0<br>1<br>9<br>10<br>• <b>B</b>  | 10<br>8<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9<br>1                                 | 0<br>0<br>2<br>9<br>10<br>• C<br>• 0<br>0<br>1<br>9<br>10<br>• C   |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine<br>conc. (ng/mL)           0           50           75           125           150           COTININE (COT 200)           Cotinine<br>conc. (ng/mL)   | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1   | 10<br>8<br>1<br>0<br><b>Sit</b><br>9<br>2<br>0<br>0<br><b>Sit</b><br>-   | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>0<br>1<br>8<br>10<br>e A<br>+<br>+   | 10<br>8<br>1<br>0<br><b>Sit</b><br>9<br>9<br>1<br>0<br><b>Sit</b><br>-  | 0<br>0<br>2<br>9<br>10<br>• <b>B</b><br>• <b>C</b><br>0<br>0<br>1<br>9<br>9<br>10<br>• <b>B</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>CCCCCCCCCCCCC</b> | 10<br>8<br>1<br>0<br><b>Sit</b><br>9<br>1<br>0<br>0<br><b>Sit</b>                          | 0<br>0<br>2<br>9<br>10<br>• C<br>+<br>0<br>0<br>1<br>9<br>10<br>• C<br>+<br>0<br>0<br>1<br>9<br>• C<br>+<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)           0           50           75           125           150           COTININE (COT 200)           Cotinine           conc. (ng/mL)           0               | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1   | 10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>2<br>0<br>Sitt<br>-<br>10   | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>0<br>1<br>8<br>10<br>e A<br>+<br>0<br>0<br>1<br>8<br>10<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                       | 10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>10<br>10<br>9<br>1<br>0<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 0<br>0<br>2<br>9<br>10<br>• <b>B</b><br>10<br>0<br>1<br>0<br>10<br>• <b>B</b><br>• <b>B</b><br>• <b>C</b>  | 10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>0<br>Situ  | 0<br>0<br>2<br>9<br>10<br>• C<br>+<br>0<br>0<br>1<br>9<br>10<br>• C<br>+<br>0<br>0<br>10<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C                 |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine           conc. (ng/mL)           0           50           75           125           150           COTININE (COT 200)           Cotinine           conc. (ng/mL)           0           100 | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                          | 10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>2<br>0<br>Sitt<br>-<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>1<br>8<br>10<br>e A<br>+<br>0<br>0<br>1<br>8<br>10<br>e A<br>+<br>0<br>0<br>0<br>1<br>8<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>10<br>0<br>Sitt<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                          | 0<br>0<br>2<br>9<br>10<br>8<br>8<br>+<br>0<br>1<br>9<br>10<br>8<br>8<br>+<br>0<br>0<br>1<br>9<br>10<br>8<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | 10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>0<br>Situ<br>-<br>10<br>10<br>10<br>10<br>10 | 0<br>0<br>2<br>9<br>10<br>e C<br>+<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   |
| conc. (ng/mL)           0           75           112.5           187.5           225           COCAINE (COC 100)           Benzoylecgonine<br>conc. (ng/mL)           0           50           75           125           150           COTININE (COT 200)           Cotinine<br>conc. (ng/mL)           0                             | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1   | 10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>2<br>0<br>Sitt<br>-<br>10   | 0<br>0<br>2<br>9<br>10<br>e A<br>+<br>0<br>0<br>1<br>8<br>10<br>e A<br>+<br>0<br>0<br>1<br>8<br>10<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                       | 10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>10<br>10<br>9<br>1<br>0<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 0<br>0<br>2<br>9<br>10<br>• <b>B</b><br>10<br>0<br>1<br>0<br>10<br>• <b>B</b><br>• <b>B</b><br>• <b>C</b>  | 10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>0<br>Situ  | 0<br>0<br>2<br>9<br>10<br>• C<br>+<br>0<br>0<br>1<br>9<br>10<br>• C<br>+<br>0<br>0<br>10<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C                 |

| 300                         | 10        | 0         | 10       | 0       | 10 | 0      | 10 |
|-----------------------------|-----------|-----------|----------|---------|----|--------|----|
| COTININE (COT 100)          |           |           |          |         |    |        |    |
| Cotinine                    | n per     | Sit       | e A      | Site B  |    | Site C |    |
| conc. (ng/mL)               | site      | -         | +        | -       | +  | -      | +  |
| 0                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 50                          | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 75                          | 10        | 9         | 1        | 9       | 1  | 9      | 1  |
| 125                         | 10        | 1         | 9        | 1       | 9  | 2      | 8  |
| 150                         | 10        | 0         | 10       | 0       | 10 | 0      | 10 |
| 2-Ethylidene-1,5-dimethyl-3 | ,3-diphen | ylpyrroli | dine (ED | DP 300) |    |        |    |
| EDDP                        | n per     | Sit       | e A      | Site    | вB | Sit    | θC |
| conc. (ng/mL)               | site      | -         | +        | -       | +  | -      | +  |
| 0                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 150                         | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 225                         | 10        | 8         | 2        | 9       | 1  | 9      | 1  |
| 375                         | 10        | 1         | 9        | 2       | 8  | 1      | 9  |
| 450                         | 10        | 0         | 10       | 0       | 10 | 0      | 10 |
| 2-Ethylidene-1,5-dimethyl-3 | ,3-diphen |           |          |         |    |        |    |
| EDDP                        | n per     | Sit       | e A      | Site    | вΒ | Site   |    |
| conc. (ng/mL)               | site      | -         | +        | -       | +  | -      | +  |
| 0                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 50                          | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 75                          | 10        | 8         | 2        | 9       | 1  | 9      | 1  |
| 125                         | 10        | 1         | 9        | 1       | 9  | 1      | 9  |
| 150                         | 10        | 0         | 10       | 0       | 10 | 0      | 10 |
| ETHYL-β-D-GLUCURONIDE       | ETG500    |           |          |         |    |        |    |
| Ethyl Glucuronide           | n per     | Sit       | e A      | Site B  |    | Site C |    |
| conc. (ng/mL)               | site      | -         | +        | -       | +  | -      | +  |
| 0                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 250                         | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 375                         | 10        | 6         | 4        | 7       | 3  | 6      | 4  |
| 625                         | 10        | 2         | 8        | 1       | 9  | 1      | 9  |
| 750                         | 10        | 0         | 10       | 0       | 10 | 0      | 10 |
| FENTANYL(FYL20)             | 1         |           |          |         |    | 1      |    |
| Norfentanyl conc.           | n per     | Sit       | e A      | Site    | эB | Site C |    |
| (ng/mL)                     | site      | -         | +        | -       | +  | -      | +  |
| 0                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 10                          | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 15                          | 10        | 8         | 2        | 7       | 3  | 7      | 3  |
| 25                          | 10        | 1         | 9        | 3       | 7  | 3      | 7  |
| 30                          | 10        | 0         | 10       | 0       | 10 | 0      | 10 |
| FENTANYL (FYL10)            |           |           |          |         |    |        |    |
| Norfentanyl conc.           | n per     |           | e A      | Site    |    | Sit    |    |
| (ng/mL)                     | site      | -         | +        | -       | +  | -      | +  |
| 0                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 5                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 7.5                         | 10        | 8         | 2        | 8       | 2  | 9      | 1  |
| 12.5                        | 10        | 1         | 9        | 1       | 9  | 2      | 8  |
| 15                          | 10        | 0         | 10       | 0       | 10 | 0      | 10 |
| GABAPENTIN (GAB2,000)       |           |           |          |         |    |        |    |
| Gabapentin                  | n         | Sit       | e A      | Site    |    | Sit    |    |
| Concentration (ng/mL)       | per       | -         | +        | -       | +  | -      | +  |
| 0                           | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 1,000                       | 10        | 10        | 0        | 10      | 0  | 10     | 0  |
| 1,500                       | 10        | 7         | 3        | 8       | 2  | 8      | 2  |

| 2,500   | 10  | 1   | 9   | 1   | 9   | 2   | 8  |
|---|---|---|---|---|---|---|--|
| 3,000   | 10  | 0   | 10  | 0   | 10  | 0   | 10   |
|   |   |   |   |   |   |   |  |
| SYNTHETIC MARIJUANA (I  | (2 50)  |   |   |   |   |   |  |
| Synthetic Marijuana   | n   | Sit   | e A   | Sit   | e B   | Sit   | еC   |
| Concentration (ng/mL)   | per   | -   | +   | -   | +   | -   | +  |
| 0   | 10  | 10  | 0   | 10  | 0   | 10  | 0  |
| 25  | 10  | 10  | 0   | 10  | 0   | 10  | 0  |
| 37.5  | 10  | 9   | 1   | 9   | 1   | 9   | 1  |
| 62.5  | 10  | 1   | 9   | 1   | 9   | 2   | 8  |
| 75  | 10  | 0   | 10  | 0   | 10  | 0   | 10   |
| SYNTHETIC MARIJUANA (I  | (2 30)  |   |   |   |   |   |  |
| Synthetic Marijuana   | n   | Sit   | e A   | Sit   | e B   | Sit   | e C  |
| Concentration (ng/mL)   | per   | -   | +   | -   | +   | -   | +  |
| 0   | 10  | 10  | 0   | 10  | 0   | 10  | 0  |
| 15  | 10  | 10  | 0   | 10  | 0   | 10  | 0  |
| 22.5  | 10  | 9   | 1   | 9   | 1   | 9   | 1  |
| 37.5  | 10  | 1   | 9   | 1   | 9   | 2   | 8  |
| 45  | 10  | 0   | 10  | 0   | 10  | 0   | 10   |
| AB-PINACA (K2+ 10)  |   |   |   |   |   |   |  |
| AB-PINACA pentanoic   |   | Sit   | e A   | Sit   | e B   | Sit   | e C  |
| acid metabolite   | n per<br>Site   |   |   |   |   |   |  |
| Conc. (ng/mL)   | Sile  | -   | +   | -   | +   | -   | +  |
| 0   | 10  | 10  | 0   | 10  | 0   | 10  | 0  |
| 5   | 10  | 10  | 0   | 10  | 0   | 10  | 0  |
| 7.5   | 10  | 9   | 1   | 9   | 1   | 9   | 1  |
| 12.5  | 10  | 1   | 9   | 1   | 9   | 2   | 8  |
| 15  | 10  | 0   | 10  | 0   | 10  | 0   | 10   |
|   |   |   |   |   |   |   |  |
| KETAMINE (KET1, 000)  |   |   |   |   |   |   |  |
| KETAMINE (KET1, 000)<br>Ketamine  | n   | Sit   | e A   | Sit   | e B   | Sit   | e C  |
|   | n<br>per  | -   | e A<br>+  | -   | e B<br>+  | -   | e C<br>+   |
| Ketamine  |   |   |   |   | -   |   |  |
| Ketamine<br>Concentration (ng/mL)   | per   | -   | +   | -   | +   | -   | +  |
| Ketamine<br>Concentration (ng/mL)<br>0  | <b>per</b> 10   | - 10  | +<br>0  | -<br>10   | +<br>0  | -<br>10<br>10<br>9  | +<br>0   |
| Ketamine<br>Concentration (ng/mL)<br>0<br>500   | <b>per</b><br>10<br>10  | -<br>10<br>10   | +<br>0<br>0   | -<br>10<br>10   | +<br>0<br>0   | -<br>10<br>10   | +<br>0<br>0  |
| Ketamine<br>Concentration (ng/mL)<br>0<br>500<br>750  | <b>per</b> 10 10 10 10  | -<br>10<br>10<br>9  | +<br>0<br>0<br>1  | -<br>10<br>10<br>8  | +<br>0<br>0<br>2  | -<br>10<br>10<br>9  | +<br>0<br>0<br>1   |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250  | <b>per</b> 10 10 10 10 10 10 10   | -<br>10<br>10<br>9<br>1<br>0  | +<br>0<br>1<br>9<br>10  | -<br>10<br>10<br>8<br>1   | +<br>0<br>0<br>2<br>9   | -<br>10<br>10<br>9<br>2   | +<br>0<br>0<br>1<br>8  |
| Ketamine           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine   | <b>per</b> 10 10 10 10 10 10 10   | -<br>10<br>10<br>9<br>1<br>0  | +<br>0<br>0<br>1<br>9   | -<br>10<br>10<br>8<br>1<br>0  | +<br>0<br>0<br>2<br>9   | -<br>10<br>10<br>9<br>2<br>0  | +<br>0<br>0<br>1<br>8  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)   | per<br>10<br>10<br>10<br>10<br>10<br>10<br><b>n</b><br>per  | -<br>10<br>10<br>9<br>1<br>0<br>Sit   | +<br>0<br>1<br>9<br>10<br>• A<br>+  | -<br>10<br>10<br>8<br>1<br>0<br>Site  | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+   | -<br>10<br>10<br>9<br>2<br>0<br>Sit   | +<br>0<br>1<br>8<br>10<br>• C<br>+   |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0   | per           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10   | -<br>10<br>10<br>9<br>1<br>0<br>Site<br>-<br>10   | +<br>0<br>1<br>9<br>10<br>• <b>A</b><br>0   | -<br>10<br>10<br>8<br>1<br>0<br>Site<br>-<br>10   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0  | -<br>10<br>10<br>9<br>2<br>0<br>0<br><b>Sit</b><br>-<br>10  | +<br>0<br>1<br>8<br>10<br>• C<br>• C<br>• 0  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250   | per           10           10           10           10           10           10           10           10           10           10           10           10           10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10   | +<br>0<br>1<br>9<br>10<br>• <b>A</b><br>0<br>0  | -<br>10<br>10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10   | +<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0  | -<br>10<br>10<br>9<br>2<br>0<br>Sit<br>-<br>10<br>10  | +<br>0<br>1<br>8<br>10<br>• C<br>• C<br>• 0<br>0   |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375   | per           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10   | -<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9  | +<br>0<br>1<br>9<br>10<br>e A<br>+<br>0<br>0<br>1   | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1  | -<br>10<br>9<br>2<br>0<br><b>Sit</b><br>-<br>10<br>10<br>8  | +<br>0<br>1<br>8<br>10<br>e C<br>+<br>0<br>0<br>2  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625   | per           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10  | -<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9<br>1   | +<br>0<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>0<br>0<br>1<br>9  | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9<br>1   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>0<br>1<br>9  | -<br>10<br>9<br>2<br>0<br>\$<br>sit<br>-<br>10<br>10<br>8<br>2  | +<br>0<br>1<br>8<br>10<br>• C<br>+<br>0<br>0<br>0<br>2<br>8  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750   | per           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10   | -<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9  | +<br>0<br>1<br>9<br>10<br>e A<br>+<br>0<br>0<br>1   | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1  | -<br>10<br>9<br>2<br>0<br><b>Sit</b><br>-<br>10<br>10<br>8  | +<br>0<br>1<br>8<br>10<br>e C<br>+<br>0<br>0<br>2  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)   | per           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0  | +<br>0<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9<br>1<br>0   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>0<br>1<br>9<br>9<br>10   | -<br>10<br>10<br>9<br>2<br>0<br><b>Sit</b><br>-<br>10<br>10<br>8<br>2<br>0  | +<br>0<br>0<br>1<br>8<br>10<br>•<br>•<br>•<br>0<br>0<br>2<br>8<br>8<br>10  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine  | per           10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0  | +<br>0<br>0<br>1<br>9<br>10<br>• <b>A</b><br>-<br>+<br>0<br>0<br>0<br>1<br>1<br>9<br>10<br>• <b>e A</b>   | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9<br>1<br>0   | +<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0<br>1<br>9<br>10<br>• B   | -<br>10<br>10<br>9<br>2<br>0<br><b>Sit</b><br>-<br>10<br>10<br>8<br>2<br>0  | +<br>0<br>0<br>1<br>8<br>10<br>• C<br>• C<br>• C<br>• C  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           Ketamine           Concentration (ng/mL)   | per           10  | -<br>10<br>10<br>9<br>1<br>0<br>Sit<br>-<br>10<br>10<br>9<br>1<br>0<br>Sit<br>-<br>Sit<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>0<br>1<br>9<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | -<br>10<br>10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10<br>9<br>1<br>0<br>Site<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1<br>0<br>1<br>9<br>9<br>10<br>• <b>B</b><br>• <b>t</b>  | -<br>10<br>10<br>9<br>2<br>0<br>Sit<br>-<br>10<br>10<br>8<br>2<br>0<br>Sit<br>-<br>Sit<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>0<br>1<br>8<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0 | per           10   | - 10 10 9 1 0 Sitt - 10 10 9 1 0 Sitt - 10  | +<br>0<br>0<br>1<br>9<br>9<br>10<br>•<br><b>A</b><br>-<br>0<br>1<br>9<br>10<br>•<br><b>A</b><br>-<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | -<br>10<br>10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>0<br>-<br>10<br>0<br>-<br>-<br>10<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                               | +<br>0<br>2<br>9<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1<br>9<br>10<br>• <b>B</b><br>• <b>B</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b>   | - 10 10 9 2 0 5itt - 10 10 8 2 0 5itt - 10 10 8 2 0 5itt - 10 10 10 10 10 10 10 10 10 10 10 10 10   | +<br>0<br>1<br>8<br>10<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C   |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0           150  | per           10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | +<br>0<br>0<br>9<br>10<br>• A<br>+<br>0<br>0<br>0<br>1<br>9<br>10<br>• A<br>• A<br>• 0<br>0<br>0  | -<br>10<br>10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10<br>9<br>1<br>0<br>Site<br>-<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | +<br>0<br>2<br>9<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1<br>9<br>9<br>10<br>• <b>B</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>CC</b> • <b>C</b> • <b>C</b> • <b>CC</b> • <b>C</b> • <b>C</b> • <b>C</b> | - 10 10 9 2 0 5it - 10 10 10 8 2 0 5it - 10 10 10 10 10 10 10 10 10 10 10 10 10   | +<br>0<br>0<br>1<br>8<br>10<br>e C<br>+<br>0<br>0<br>2<br>8<br>10<br>e C<br>+<br>0<br>0<br>0<br>0<br>0<br>2<br>0<br>0<br>0<br>0<br>0<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0           150           225  | per           10                           | - 10 10 9 1 0 Sit - 10 10 9 1 0 Sit - 10 10 9 1 . Sit - 10 10 9 1 9 1 0 9 1 0 9 1 0 0 0 0 0 0 0   | +<br>0<br>0<br>9<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | - 10 10 8 1 0 Situ - 10 10 9 1 0 Situ - 10 10 9 1 0 Situ - 10 0 9 1 0 9 1 1 0 9 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 1 1 | +<br>0<br>0<br>9<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>10<br>• <b>B</b><br>+<br>0<br>0<br>10   | -<br>10<br>10<br>9<br>2<br>0<br>Sitt<br>-<br>10<br>10<br>8<br>2<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>Sitt<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>0<br>1<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>8<br>10<br>• C<br>• C<br>• C<br>• 0<br>0<br>0<br>1  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0           150           225           375  | per           10 | -<br>10<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9<br>1<br>0<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>1<br>0<br>9<br>1<br>0<br>1<br>0<br>9<br>1<br>0<br>0<br>1<br>0<br>9<br>1<br>0<br>0<br>1<br>0<br>9<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>1<br>0<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>1<br>0<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>1<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | +<br>0<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | -<br>10<br>10<br>8<br>1<br>0<br>5<br>10<br>10<br>9<br>1<br>0<br>5<br>10<br>10<br>9<br>1<br>0<br>5<br>10<br>10<br>9<br>1<br>0<br>1<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1               | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1<br>9<br>10<br>• <b>B</b><br>• <b>1</b><br>9<br>10   | -<br>10<br>10<br>9<br>2<br>0<br>Sitt<br>-<br>10<br>10<br>8<br>2<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>0<br>2<br>2<br>0<br>2<br>2<br>2<br>0<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | +<br>0<br>0<br>1<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>8<br>10<br>• C<br>• C<br>• +<br>0<br>0<br>2<br>8<br>8<br>10<br>• C<br>• • •<br>1<br>8<br>8  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0           Ketamine           Concentration (ng/mL)           0           150           225           375           450   | per           10                           | - 10 10 9 1 0 Sit - 10 10 9 1 0 Sit - 10 10 9 1 . Sit - 10 10 9 1 9 1 0 9 1 0 9 1 0 0 0 0 0 0 0   | +<br>0<br>0<br>9<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | - 10 10 8 1 0 Situ - 10 10 9 1 0 Situ - 10 10 9 1 0 Situ - 10 0 9 1 0 9 1 1 0 9 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 0 9 1 1 1 1 | +<br>0<br>0<br>9<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>10<br>• <b>B</b><br>+<br>0<br>0<br>10   | -<br>10<br>10<br>9<br>2<br>0<br>Sitt<br>-<br>10<br>10<br>8<br>2<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>Sitt<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>0<br>1<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>8<br>10<br>• C<br>• C<br>• C<br>• 0<br>0<br>0<br>1  |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0           150           225           375           450           KRATOM (KRA300)  | per           10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>1<br>9<br>10   | -<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>9<br>1<br>0<br>Situ<br>-<br>0<br>-<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                         | +<br>0<br>2<br>9<br>9<br>10<br>•<br><b>B</b><br>+<br>0<br>0<br>1<br>9<br>10<br>•<br><b>B</b><br>+<br>0<br>0<br>1<br>1<br>9<br>10<br>•<br>•<br><b>B</b><br>+<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | -<br>10<br>9<br>2<br>0<br>Sit<br>-<br>10<br>10<br>8<br>2<br>0<br>Sit<br>-<br>10<br>10<br>9<br>2<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>1<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>8<br>10<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• 0<br>0<br>0<br>1<br>1<br>8<br>8<br>10   |
| Ketamine           Concentration (ng/mL)           0           500           750           1,250           1,500           KETAMINE (KET500)           Ketamine           Concentration (ng/mL)           0           250           375           625           750           KETAMINE (KET300)           Ketamine           Concentration (ng/mL)           0           150           225           375  | per           10 | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | -<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>9<br>1<br>0<br>Situ<br>-<br>10<br>9<br>1<br>0<br>Situ<br>-<br>0<br>-<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                         | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>1<br>9<br>10<br>• <b>B</b><br>• <b>1</b><br>9<br>10   | -<br>10<br>9<br>2<br>0<br>Sit<br>-<br>10<br>10<br>8<br>2<br>0<br>Sit<br>-<br>10<br>10<br>9<br>2<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>0<br>1<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>8<br>10<br>• C<br>• C<br>• +<br>0<br>0<br>2<br>8<br>8<br>10<br>• C<br>• • •<br>1<br>8<br>8  |

| â   | 40  | 40   | •   | 10   | 0  | 40   | 0                                  |
|---|---|--|---|--|--|--|------------------------------------|
| 0   | 10<br>10  | 10   | 0   | 10   | 0  | 10   | 0                                  |
|   | -   | 10   | 0   | 10   | 0  | 10   | 0                                  |
| 75  | 10  | 8  | 2   | 9  | 1  | 8  | 2                                  |
| 125<br>150  | 10<br>10  | 1  | 9<br>10                                   | 1  | 9<br>10  | 2  | 8<br>10                            |
|   |   |  | 10  | 0  | 10   | U  | 10                                 |
| LYSERGIC ACID DIETHYLA  |   |  | - 4                                       | 0:4  |  | 0.14                                       |                                    |
| LSD<br>Concentration (ng/mL)  | n<br>per  | Sit  | eA<br>+                                   | SIL  | eB<br>+  | Sit  | ес<br>+                            |
| 0   |   | - 10                                       | +<br>0                                    | - 10                                       | +<br>0   | - 10                                       | +<br>0                             |
| 25  | 10<br>10  |  |   |  |  |  | -                                  |
| 37.5  | 10  | 10   | 0   | 10   | 0  | 10   | 0                                  |
|   | -   | 6  | 4<br>9                                    | 6  | 4<br>9   | 6  | 4<br>9                             |
| 62.5<br>75  | 10<br>10  | 1  | -   | 0  |  | 1  | -                                  |
|   |   |  | 10  | -  | 10   | 0  | 10                                 |
| METHYLENEDIOXYMETHA   |   |  | ,   | <i>.</i>                                   |  | -  |                                    |
| Methylenedioxymethamp   | n   | Sit  | e A                                       | Sit  | e B  | Site                                       | e C                                |
| hetamine<br>Concentration (ng/mL)   | per<br>Site   | -  | +   | -  | +  | -  | +                                  |
|   |   | 10   |   | 10   |  |  |                                    |
| 0   | 10  | 10   | 0   | 10   | 0  | 10   | 0                                  |
| 500<br>750  | 10<br>10  | 10   | 0   | 10<br>9                                    | 0  | 10   | 0                                  |
|   | -   | 8  |   | -  |  | 8  |                                    |
| 1,250   | 10  | 2  | 8   | 2  | 8  | 1  | 9                                  |
| 1,500   | 10  | 0  | 10  | 0  | 10   | 0  | 10                                 |
| METHYLENEDIOXYMETHA   |   |  |   |  |  |  |                                    |
| Methylenedioxymethamp   | n   | Sit  | e A                                       | Sit  | eВ   | Site                                       | e C                                |
| hetamine  | per   | -  | +   | -  | +  | -  | +                                  |
| Concentration (ng/mL)   | Site  |  |   |  |  |  | -                                  |
| 0   | 10  | 10   | 0   | 10   | 0  | 10   | 0                                  |
| 250   | 10  | 10   | 0   | 10   | 0  | 10   | 0                                  |
| 375   | 10  | 8  | 2   | 9  | 1  | 9  | 1                                  |
| 625   | 10  | 2  | 8   | 1  | 9  | 1  | 9                                  |
| 750   | 10  | 0  | 10  | 0  | 10   | 0  | 10                                 |
| 3,4-METHYLENEDIOXYPYR   |   |  |   |  |  | 0.14                                       |                                    |
| 3,4-methylenedioxypyrov<br>alerone Conc. (ng/mL)  | n per<br>Site   | - 510                                      | eA<br>+                                   | - 510                                      | eB<br>+  | Sit  | eC<br>+                            |
|   | 10  | - 10                                       | +<br>0                                    | - 10                                       | +<br>0   | - 10                                       | +<br>0                             |
| 1,500   | 10  | 10   | 0   | 10   | 0  | 10   | 0                                  |
| 2,250   | 10  | 9  | 1   | 9  | 1  | 9  | 1                                  |
| 3,750   | 10  | 9  | 9   | 9  | 9  | 9<br>2                                     | 8                                  |
| 4,500   | 10  | 0  | 9<br>10                                   | 0  | 9<br>10  | 2  | 8                                  |
| 3,4-METHYLENEDIOXYPYR   | -   | -  | -   | -  | 10   | U  | 10                                 |
| 3,4-methylenedioxypyrov   | n per   |  | e A                                       | )<br>Site                                  | B  | Site                                       |                                    |
| alerone Conc. (ng/mL)   | n per<br>Site   | - 31                                       | e A<br>+                                  | - 510                                      | е <b>Б</b><br>+                                | - 510                                      | ÷C<br>+                            |
|   | 10  | 10   | 0   | - 10                                       | 0  | - 10                                       | +<br>0                             |
|   |   | 10   | -   | -  | 0  | 10   | 0                                  |
| -   | -   | 10   |   |  |  |  | U                                  |
| 500   | 10  | 10   | 0   | 10   |  |  | 1                                  |
| 500<br>750  | 10<br>10  | 9  | 1   | 9  | 1  | 9  | 1                                  |
| 500<br>750<br>1,250   | 10<br>10<br>10  | 9<br>1                                     | 1<br>9                                    | 9<br>1                                     | 1<br>9   | 9<br>2                                     | 8                                  |
| 500<br>750<br>1,250<br>1,500  | 10<br>10<br>10<br>10  | 9  | 1   | 9  | 1  | 9  |                                    |
| 500<br>750<br>1,250<br>1,500<br>METHAMPHETAMINE (MET  | 10<br>10<br>10<br>10<br><b>1,000)</b>                                     | 9<br>1<br>0                                | 1<br>9<br>10                              | 9<br>1<br>0                                | 1<br>9<br>10                                   | 9<br>2<br>0                                | 8<br>10                            |
| 500<br>750<br>1,250<br>1,500<br>METHAMPHETAMINE (MET<br>Methamphetamine                                     | 10<br>10<br>10<br>10<br><b>1,000)</b><br>n per                            | 9<br>1<br>0                                | 1<br>9<br>10<br>e A                       | 9<br>1<br>0                                | 1<br>9<br>10<br>e <b>B</b>                     | 9<br>2                                     | 8<br>10<br>e C                     |
| 500<br>750<br>1,250<br>1,500<br>METHAMPHETAMINE (MET<br>Methamphetamine<br>Conc. (ng/mL)                    | 10<br>10<br>10<br>1,000)<br>n per<br>Site                                 | 9<br>1<br>0<br>Sit                         | 1<br>9<br>10<br>e A<br>+                  | 9<br>1<br>0<br>Site                        | 1<br>9<br>10<br>e B<br>+                       | 9<br>2<br>0<br>Site                        | 8<br>10<br>e C<br>+                |
| 500<br>750<br>1,250<br>METHAMPHETAMINE (MET<br>Methamphetamine<br>Conc. (ng/mL)<br>0                        | 10<br>10<br>10<br>10<br><b>1,000)</b><br><b>n per</b><br>Site<br>10       | 9<br>1<br>0<br><b>Sit</b><br>10            | 1<br>9<br>10<br><b>e A</b><br>+<br>0      | 9<br>1<br>0<br><b>Sit</b><br>10            | 1<br>9<br>10<br>e <b>B</b><br>+<br>0           | 9<br>2<br>0<br><b>Sit</b><br>10            | 8<br>10<br>e C<br>+<br>0           |
| 500<br>750<br>1,250<br>1,500<br>METHAMPHETAMINE (MET<br>Methamphetamine<br>Conc. (ng/mL)<br>0<br>500        | 10<br>10<br>10<br><b>1,000)</b><br><b>n per</b><br>Site<br>10<br>10       | 9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10 | 1<br>9<br>10<br><b>e A</b><br>+<br>0<br>0 | 9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10 | 1<br>9<br>10<br>• B<br>+<br>0<br>0             | 9<br>2<br>0<br><b>Sit</b><br>10<br>10      | 8<br>10<br>• C<br>•<br>0<br>0      |
| 500<br>750<br>1,250<br>1,500<br>METHAMPHETAMINE (MET<br>Methamphetamine<br>Conc. (ng/mL)<br>0<br>500<br>750 | 10<br>10<br>10<br><b>1,000)</b><br><b>n per</b><br>Site<br>10<br>10<br>10 | 9<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9 | 1<br>9<br>10<br>e A<br>+<br>0<br>0<br>1   | 9<br>1<br>0<br><b>Sit</b><br>10<br>10<br>9 | 1<br>9<br>10<br><b>e B</b><br>+<br>0<br>0<br>1 | 9<br>2<br>0<br><b>Sit</b><br>10<br>10<br>9 | 8<br>10<br>• C<br>•<br>0<br>0<br>1 |
| 500<br>750<br>1,250<br>1,500<br>METHAMPHETAMINE (MET<br>Methamphetamine<br>Conc. (ng/mL)<br>0<br>500        | 10<br>10<br>10<br><b>1,000)</b><br><b>n per</b><br>Site<br>10<br>10       | 9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10 | 1<br>9<br>10<br><b>e A</b><br>+<br>0<br>0 | 9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10 | 1<br>9<br>10<br>• B<br>+<br>0<br>0             | 9<br>2<br>0<br><b>Sit</b><br>10<br>10      | 8<br>10<br>• C<br>•<br>0<br>0      |

# METHAMPHETAMINE (MET 500)

| METHAMPHETAMINE (MET  |   | 0.14  |  | 0.1   | -   | 0.1   | •   |
|---|---|---|--|---|---|---|---|
| Methamphetamine   | n per   | Sit   | e A  | Site  |   | Sit   |   |
| Conc. (ng/mL)   | Site  | -   | +  | -   | +   | -   | +   |
| 0   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 250   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 375   | 10  | 8   | 2  | 9   | 1   | 9   | 1   |
| 625   | 10  | 1   | 9  | 1   | 9   | 1   | 9   |
| 750   | 10  | 0   | 10   | 0   | 10  | 0   | 10  |
| METHAMPHETAMINE (ME   |   | 0.1   |  | 0.1   |   | 0.1   | ~   |
| Methamphetamine   | n per   | Sit   | e A  | Site  |   | Sit   |   |
| Conc. (ng/mL)   | Site  | -   | +  | -   | +   | -   | +   |
| 0   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 150   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 225   | 10  | 9   | 1  | 9   | 1   | 8   | 2   |
| 375   | 10  | 1   | 9  | 1   | 9   | 1   | 9   |
| 450   | 10  | 0   | 10   | 0   | 10  | 0   | 10  |
| MORPHINE (MOP/OPI 300)  |   |   |  |   |   |   |   |
| Morphine  | n per   |   | e A  | Site  |   | Sit   |   |
| Conc. (ng/mL)   | Site  | -   | +  | -   | +   | -   | +   |
| 0   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 150   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 225   | 10  | 9   | 1  | 9   | 1   | 9   | 1   |
| 375   | 10  | 1   | 9  | 1   | 9   | 1   | 9   |
| 450   | 10  | 0   | 10   | 0   | 10  | 0   | 10  |
| MORPHINE (MOP/OPI 200)  |   |   |  |   |   |   |   |
| Morphine  | n per   | Sit   | еA   | Site  |   | Site  |   |
| Conc. (ng/mL)   | Site  | -   | +  | -   | +   | -   | +   |
| 0   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 100   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 150   | 10  | 9   | 1  | 9   | 1   | 9   | 1   |
| 250   | 10  | 1   | 9  | 1   | 9   | 1   | 9   |
| 300   | 10  | 0   | 10   | 0   | 10  | 0   | 10  |
| MORPHINE (MOP/OPI 100)  |   | -   |  |   |   |   |   |
| Morphine  | n per   | Sit   | e A  | Site  | эB  | Site  | θC  |
| Conc. (ng/mL)   | Site  | -   | +  | -   | +   | -   | +   |
| 0   | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 50  | 10  | 10  | 0  | 10  | 0   | 10  | 0   |
| 75  | 10  | 9   | 1  | 9   | 1   | 9   | 1   |
| 125   | 10  | 1   | 9  | 2   | 8   | 1   | 9   |
|   |   |   |  |   |   | 0   | 10  |
| 150   | 10  | 0   | 10   | 0   | 10  | U   |   |
| METHYLPHENIDATE (MPD  | 150)  |   |  | -   |   | -   |   |
| METHYLPHENIDATE (MPD<br>Methylphenidate   | 150)<br>n per   |   | e A  | Site  | e B   | Site  | e C   |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)  | 150)<br>n per<br>site   | Sit   | e A<br>+   | - Site  | e B<br>+  | Site  | e C<br>+  |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0   | <b>150)</b><br>n per<br>site<br>10  | -<br>10   | <b>e A</b><br>+<br>0                                     | -<br>10   | <b>B</b><br>+<br>0  | -<br>10   | e C<br>+<br>0   |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75   | <b>n per</b><br>site<br>10<br>10  | <b>Sit</b><br>-<br>10<br>10   | <b>e A</b><br>+<br>0                                     | <b>Sit</b><br>-<br>10<br>10   | <b>B</b><br>+<br>0<br>0                                   | <b>Sit</b><br>-<br>10<br>10                             | <b>• C</b><br>+<br>0<br>0                                 |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5  | <b>150)</b><br>n per<br>site<br>10<br>10<br>10  | <b>Sit</b><br>-<br>10<br>10<br>6  | <b>e A</b><br>+<br>0<br>0<br>4                           | Site<br>-<br>10<br>10<br>6  | <b>B +</b> 0 0 4  | -<br>10<br>10<br>6                                      | <b>e C</b><br>+<br>0<br>0<br>4                            |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5   | <b>150)</b><br><b>n per</b><br><b>site</b><br>10<br>10<br>10<br>10  | Sit<br>-<br>10<br>10<br>6<br>1  | <b>e A</b><br>+<br>0<br>0<br>4<br>9                      | Site<br>-<br>10<br>10<br>6<br>1   | <b>B</b><br>+<br>0<br>0<br>4<br>9                         | Situ<br>-<br>10<br>10<br>6<br>1                         | <b>c</b><br>+<br>0<br>0<br>4<br>9                         |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225  | <b>150)</b><br><b>n per</b><br><b>site</b><br>10<br>10<br>10<br>10<br>10<br>10  | <b>Sit</b><br>-<br>10<br>10<br>6  | <b>e A</b><br>+<br>0<br>0<br>4                           | Site<br>-<br>10<br>10<br>6  | <b>B +</b> 0 0 4  | <b>Sit</b><br>-<br>10<br>10<br>6                        | <b>e C</b><br>+<br>0<br>0<br>4                            |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>METHAQUALONE (MQL 30  | n per           site           10           10           10           10           10           10           10           10           10   | Sit<br>-<br>10<br>10<br>6<br>1<br>0   | <b>e A</b><br>+<br>0<br>0<br>4<br>9<br>10                | Site<br>-<br>10<br>10<br>6<br>1<br>0  | <b>B</b><br><b>+</b><br>0<br>0<br>4<br>9<br>10            | Site<br>-<br>10<br>10<br>6<br>1<br>0                    | <b>c</b><br><b>+</b><br>0<br>0<br>4<br>9<br>10            |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>METHAQUALONE (MQL 30<br>Methaqualone  | 150)<br>n per<br>site<br>10<br>10<br>10<br>10<br>10<br>0)<br>n per  | Sit<br>-<br>10<br>10<br>6<br>1<br>0   | <b>e A</b><br>0<br>0<br>4<br>9<br>10<br><b>e A</b>       | Site<br>-<br>10<br>10<br>6<br>1   | ■ B 10  | Situ<br>-<br>10<br>10<br>6<br>1                         | <b>c +</b> 0 0 4 9 10 <b>c</b>                            |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>METHAQUALONE (MQL 30<br>Methaqualone<br>conc. (ng/mL)   | 150)<br>n per<br>site<br>10<br>10<br>10<br>10<br>10<br>0)<br>n per<br>site  | Sit<br>-<br>10<br>10<br>6<br>1<br>0<br>Sit  | e A<br>+<br>0<br>0<br>4<br>9<br>10<br>e A<br>+           | Site<br>-<br>10<br>10<br>6<br>1<br>0<br>Site<br>-   | ■ <b>B</b>  | Site<br>-<br>10<br>10<br>6<br>1<br>0<br>Site<br>-       | ■ C + 0 0 4 9 10 ■ C +                                    |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>METHAQUALONE (MQL 30<br>Methaqualone<br>conc. (ng/mL)<br>0  | n per<br>site           10           10           10           10           10           10           0           10           10           10           10           10           10           10           10           10           10           10           10           10           10 | Sitt           -           10           10           6           1           0  | e A<br>+<br>0<br>0<br>4<br>9<br>10<br>e A<br>+<br>0      | -<br>-<br>10<br>10<br>6<br>1<br>0<br>Site<br>-<br>10  | a B<br>+<br>0<br>0<br>4<br>9<br>10<br>10<br>a B<br>+<br>0 | Site<br>-<br>10<br>10<br>6<br>1<br>0<br>Site<br>-<br>10 | a C<br>+<br>0<br>0<br>4<br>9<br>10<br>10<br>→ C<br>+<br>0 |
| METHYLPHENIDATE (MPD           Methylphenidate           conc. (ng/mL)           0           75           112.5           187.5           225           METHAQUALONE (MQL 30           Methaqualone           conc. (ng/mL)           0           150 | n per           site           10           10           10           10           10           0           n per           site           10           10           10           10           10           10           10           10           10           10           10           10  | Sitt           -           10           6           1           0           Sitt           -           10           10           11           12           13           14           15           16           17           10           10 | e A<br>+<br>0<br>0<br>4<br>9<br>10<br>e A<br>+<br>0<br>0 | Site           -           10           10           6           1           0           Site           -           10           10           10           11           11           11           11           11           110           110 | ■ B<br>+<br>0<br>0<br>4<br>9<br>10<br>■ B<br>+<br>0<br>0  |   | € C<br>+<br>0<br>0<br>4<br>9<br>10<br>€ C<br>+<br>0<br>0  |
| METHYLPHENIDATE (MPD<br>Methylphenidate<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>METHAQUALONE (MQL 30<br>Methaqualone<br>conc. (ng/mL)<br>0  | n per<br>site           10           10           10           10           10           10           0           10           10           10           10           10           10           10           10           10           10           10           10           10           10 | Sitt           -           10           10           6           1           0   Sitt   | e A<br>+<br>0<br>0<br>4<br>9<br>10<br>e A<br>+<br>0      | -<br>-<br>10<br>10<br>6<br>1<br>0<br>Site<br>-<br>10  | a B<br>+<br>0<br>0<br>4<br>9<br>10<br>10<br>a B<br>+<br>0 | Site<br>-<br>10<br>10<br>6<br>1<br>0<br>Site<br>-<br>10 | a C<br>+<br>0<br>0<br>4<br>9<br>10<br>→ C<br>+<br>0       |

| 450                    | 10       | 0       | 10  | 0       | 10  | 0       | 10  |
|------------------------|----------|---------|-----|---------|-----|---------|-----|
| METHADONE (MTD300)     | r        |         |     |         |     |         |     |
| Methadone              | n per    |         | e A |         | e B | Sit     | e C |
| conc. (ng/mL)          | site     | -       | +   | -       | +   | -       | +   |
| 0                      | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 150                    | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 225                    | 10       | 8       | 2   | 9       | 1   | 9       | 1   |
| 375                    | 10       | 1       | 9   | 1       | 9   | 1       | 9   |
| 450                    | 10       | 0       | 10  | 0       | 10  | 0       | 10  |
| METHADONE (MTD200)     | -        |         |     |         |     |         |     |
| Methadone              | n per    |         | e A |         | e B |         | e C |
| conc. (ng/mL)          | site     | -       | +   | -       | +   | -       | +   |
| 0                      | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 100                    | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 150                    | 10       | 8       | 2   | 9       | 1   | 9       | 1   |
| 250                    | 10       | 1       | 9   | 1       | 9   | 1       | 9   |
| 300                    | 10       | 0       | 10  | 0       | 10  | 0       | 10  |
| MORPHINE/OPIATE (OPI 2 |          |         |     |         |     |         |     |
| Morphine               | n per    |         | e A |         | e B | Sit     | e C |
| conc. (ng/mL)          | site     | -       | +   | -       | +   | -       | +   |
| 0                      | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 1,000                  | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 1,500                  | 10       | 9       | 1   | 9       | 1   | 8       | 2   |
| 2,500                  | 10       | 1       | 9   | 1       | 9   | 1       | 9   |
| 3,000                  | 10       | 0       | 10  | 0       | 10  | 0       | 10  |
| MORPHINE/OPIATE (OPI 1 | ,        |         |     |         |     | r       |     |
| Morphine               | n per    | Sit     | e A | Sit     | eВ  | Sit     | e C |
| conc. (ng/mL)          | site     | -       | +   | -       | +   | -       | +   |
| 0                      | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 500                    | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 750                    | 10       | 9       | 1   | 9       | 1   | 8       | 2   |
| 1,250                  | 10       | 1       | 9   | 1       | 9   | 1       | 9   |
| 1,500                  | 10       | 0       | 10  | 0       | 10  | 0       | 10  |
| OXYCODONE (OXY100)     | r        |         |     |         |     |         |     |
| Oxycodone              | n per    |         | e A |         | e B | Sit     | e C |
| conc. (ng/mL)          | site     | -       | +   | -       | +   | -       | +   |
| 0                      | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 50                     | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 75                     | 10       | 9       | 1   | 9       | 1   | 9       | 1   |
| 125                    | 10       | 1       | 9   | 1       | 9   | 2       | 8   |
| 150                    | 10       | 0       | 10  | 0       | 10  | 0       | 10  |
| PHENCYCLIDINE (PCP25)  | 1        |         |     |         |     |         |     |
| Phencyclidine          | n per    |         | e A |         | eВ  |         | e C |
| conc. (ng/mL)          | site     | -       | +   | -       | +   | -       | +   |
| 0                      | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 12.5                   | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 18.75                  | 10       | 8       | 2   | 9       | 1   | 8       | 2   |
| 31.25                  | 10       | 1       | 9   | 1       | 9   | 2       | 8   |
| 37.5                   | 10       | 0       | 10  | 0       | 10  | 0       | 10  |
| PREGABALIN (PGB2,000)  | 1        |         |     |         | _   |         |     |
| Pregabalin             | n per    |         | e A |         | e B | Sit     | e C |
| conc. (ng/mL)          | site     | -       | +   | -       | +   | -       | +   |
| 0                      | 10       | 10      | 0   | 10      | 0   | 10      | 0   |
| 1,000                  | 10<br>10 | 10<br>6 | 0   | 10<br>7 | 0   | 10<br>6 | 0   |
|                        |          |         |     |         |     |         |     |

| 2.500   | 10   | 2                                   | 8                                  | 1                                    | 9   | 1                              | 9   |
|---|--|-------------------------------------|------------------------------------|--------------------------------------|---|--------------------------------|---|
| 2,500   | 10   | 2                                   | 8<br>10                            | 0                                    | 9<br>10                                   | 0                              | 9<br>10                                   |
| PREGABALIN (PGB700)   | 10   | 0                                   | 10                                 | 0                                    | 10  | 0                              | 10  |
| Pregabalin  | n per  | Sit                                 | e A                                | Sit                                  | B   | Sit                            |   |
| conc. (ng/mL)   | site   |                                     | +                                  |                                      | +   |                                | +   |
| 0   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 350   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 525   | 10   | 6                                   | 4                                  | 7                                    | 3   | 6                              | 4   |
| 875   | 10   | 2                                   | 8                                  | 1                                    | 9   | 1                              | 9   |
| 1050  | 10   | 0                                   | 10                                 | 0                                    | 10  | 0                              | 10  |
| PREGABALIN (PGB500)   | 10   | U                                   | 10                                 | 0                                    | 10  | U                              | 10  |
| Pregabalin  | n per  | Sit                                 | e A                                | Sit                                  | e B                                       | Sit                            | • C                                       |
| conc. (ng/mL)   | site   |                                     | +                                  | -                                    | +   | -                              | +   |
| 0   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 250   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 375   | 10   | 6                                   | 4                                  | 7                                    | 3   | 6                              | 4   |
| 625   | 10   | 2                                   | 8                                  | 1                                    | 9   | 1                              | 9   |
| 750   | 10   | 0                                   | 10                                 | 0                                    | 10  | 0                              | 10  |
| PROPOXYPHENE (PPX300  | -  | U                                   | 10                                 | v                                    | 10  | 0                              | 10  |
| Propoxyphene  | n per  | Sit                                 | e A                                | Sit                                  | e B                                       | Site                           | • C                                       |
| conc. (ng/mL)   | site   | -                                   | +                                  | -                                    | +   | -                              | +   |
| 0   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 150   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 225   | 10   | 8                                   | 2                                  | 9                                    | 1   | 9                              | 1   |
| 375   | 10   | 1                                   | 9                                  | 1                                    | 9   | 2                              | 8   |
| 450   | 10   | 0                                   | 10                                 | 0                                    | 10  | 0                              | 10  |
| TRICYCLIC ANTIDEPRESS   | -  | -                                   | 10                                 | v                                    | 10  | U                              | 10  |
| Nortriptyline   | n per  |                                     | e A                                | Sit                                  | e B                                       | Site                           |   |
| conc. (ng/mL)   | site   |                                     | +                                  | -                                    | +   | -                              | +   |
| 0   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 500   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 750   | 10   | 8                                   | 2                                  | 8                                    | 2   | 8                              | 2   |
| 1,250   | 10   | 1                                   | 9                                  | 1                                    | 9   | 2                              | 8   |
| 1,500   | 10   | 0                                   | 10                                 | 0                                    | 10  | 0                              | 10  |
| TRICYCLIC ANTIDEPRESS   |  |                                     |                                    | ů                                    |   | ů                              | 10  |
| Nortriptyline   | n per  |                                     | e A                                | Sit                                  | e B                                       | Sit                            | • C                                       |
| conc. (ng/mL)   | site   | -                                   | +                                  | -                                    | +   | -                              | +   |
| 0   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 250   | 10   | 10                                  | 0                                  | 10                                   | 0   | 10                             | 0   |
| 375   | 10   | 8                                   | 2                                  | 8                                    | 2   | 8                              | 2   |
| 625   | 10   | 1                                   | 9                                  | 1                                    | 9   | 2                              | 8   |
| 750   | 10   | 0                                   | 10                                 | 0                                    | 10  | 0                              | 10  |
|   |  |                                     |                                    |                                      |   |                                | -   |
| MARIJUANA (THC150)  |  |                                     |                                    |                                      |   |                                | -   |
| MARIJUANA (THC150)<br>11-nor- <u>A</u> 9-COOH   | n per  | Sit                                 | e A                                | Sit                                  | e B                                       | Site                           | θC  |
| 11-nor-∆9-COOH  | n per<br>site  | Sit                                 | e A<br>+                           | Sit                                  | eB<br>+                                   | Site                           | ∋C<br>+                                   |
|   |  |                                     | -                                  |                                      |   |                                |   |
| 11-nor-∆9-COOH<br>conc. (ng/mL)   | site   | -                                   | +                                  | -                                    | +   | -                              | +   |
| 11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL)<br>0<br>75   | <b>site</b><br>10<br>10  | -<br>10<br>10                       | +<br>0<br>0                        | -<br>10<br>10                        | +<br>0                                    | -<br>10<br>10                  | +<br>0<br>0                               |
| 11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL)<br>0<br>75<br>112.5  | <b>site</b> 10 10 10 10  | -<br>10<br>10<br>9                  | +<br>0<br>0<br>1                   | -<br>10<br>10<br>9                   | +<br>0<br>0<br>1                          | -<br>10<br>10<br>9             | +<br>0<br>0<br>1                          |
| 11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL)<br>0<br>75   | <b>site</b><br>10<br>10  | -<br>10<br>10                       | +<br>0<br>0                        | -<br>10<br>10                        | +<br>0<br>0                               | -<br>10<br>10                  | +<br>0<br>0                               |
| 11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225  | site<br>10<br>10<br>10<br>10   | -<br>10<br>10<br>9<br>1             | +<br>0<br>0<br>1<br>9              | -<br>10<br>10<br>9<br>1              | +<br>0<br>0<br>1<br>9                     | -<br>10<br>10<br>9<br>1        | +<br>0<br>0<br>1<br>9                     |
| 11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>MARIJUANA (THC50)   | site           10           10           10           10           10           10           10  | -<br>10<br>10<br>9<br>1<br>0        | +<br>0<br>1<br>9<br>10             | -<br>10<br>10<br>9<br>1<br>0         | +<br>0<br>1<br>9<br>10                    | -<br>10<br>10<br>9<br>1<br>0   | +<br>0<br>1<br>9<br>10                    |
| 11-пог-д9-СООН<br>сопс. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>МАКЈЈИАНА (ТНС50)<br>11-пог-д9-СООН                                    | site           10           10           10           10           10           10           10           n per  | -<br>10<br>10<br>9<br>1<br>0        | +<br>0<br>1<br>9<br>10<br>e A      | -<br>10<br>10<br>9<br>1              | +<br>0<br>1<br>9<br>10                    | -<br>10<br>10<br>9<br>1        | +<br>0<br>1<br>9<br>10                    |
| 11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>MARIJUANA (THC50)   | site           10           10           10           10           10           10           10           10           10           10           10           10           10           10 | -<br>10<br>10<br>9<br>1<br>0        | +<br>0<br>1<br>9<br>10<br>e A<br>+ | -<br>10<br>10<br>9<br>1<br>0         | +<br>0<br>1<br>9<br>10<br>e B             | -<br>10<br>10<br>9<br>1<br>0   | +<br>0<br>1<br>9<br>10                    |
| 11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL)<br>0<br>75<br>112.5<br>187.5<br>225<br>MARIJUANA (THC50)<br>11-nor- <u>A</u> 9-COOH<br>conc. (ng/mL) | site           10           10           10           10           10           10           10           n per  | -<br>10<br>10<br>9<br>1<br>0<br>Sit | +<br>0<br>1<br>9<br>10<br>e A      | -<br>10<br>10<br>9<br>1<br>0<br>Site | +<br>0<br>1<br>9<br>10<br>• <b>B</b><br>+ | -<br>10<br>9<br>1<br>0<br>Site | +<br>0<br>1<br>9<br>10<br>• <b>C</b><br>+ |

| 37.5   | 10  | 9   | 1  | 8  | 2   | 9   | 1   |
|--|---|---|--|--|---|---|---|
| 62.5   | 10  | 1   | 9  | 1  | 9   | 1   | 9   |
| 75   | 10  | 0   | 10   | 0  | 10  | 0   | 10  |
| MARIJUANA (THC25)  | 10  | ů   | 10   | •  | 10  | ů   |   |
| 11-nor-∆9-COOH   | n per   | Sit   | e A  | Sit  | e B   | Site  | вC  |
| conc. (ng/mL)  | site  | -   | +  | -  | +   | -   | +   |
| 0  | 10  | 10  | 0  | 10   | 0   | 10  | 0   |
| 12.5   | 10  | 10  | 0  | 10   | 0   | 10  | 0   |
| 18.75  | 10  | 8   | 2  | 8  | 2   | 9   | 1   |
| 31.25  | 10  | 1   | 9  | 1  | 9   | 2   | 8   |
| 37.5   | 10  | 0   | 10   | 0  | 10  | 0   | 10  |
| MARIJUANA (THC20)  |   |   |  |  |   |   |   |
| 11-nor-∆9-COOH   | n per   | Sit   | e A  | Sit  | e B   | Site  | еC  |
| conc. (ng/mL)  | site  | -   | +  | -  | +   | -   | +   |
| 0  | 10  | 10  | 0  | 10   | 0   | 10  | 0   |
| 10   | 10  | 10  | 0  | 10   | 0   | 10  | 0   |
| 15   | 10  | 8   | 2  | 8  | 2   | 9   | 1   |
| 25   | 10  | 1   | 9  | 1  | 9   | 2   | 8   |
| 30   | 10  | 0   | 10   | 0  | 10  | 0   | 10  |
| MARIJUANA (THC600)   |   |   |  |  |   |   |   |
| 11-nor- <u>∆</u> 9-COOH  | n per   | Sit   | e A  | Sit  | e B   | Site  | еC  |
| conc. (ng/mL)  | site  | •   | +  | •  | +   | -   | +   |
| 0  | 10  | 10  | 0  | 10   | 0   | 10  | 0   |
| 300  | 10  | 10  | 0  | 10   | 0   | 10  | 0   |
| 450  | 10  | 8   | 2  | 9  | 1   | 9   | 1   |
| 750  | 10  | 1   | 9  | 1  | 9   | 2   | 8   |
| 900  | 10  | 0   | 10   | 0  | 10  | 0   | 10  |
| TRAMADOL (TML/TRA100)  |   |   |  |  |   |   |   |
|  |   |   |  |  |   |   |   |
| Tramadol   | n per   | Sit   |  | Sit  |   | Site  |   |
| Tramadol<br>conc. (ng/mL)  | site  | -   | +  | -  | +   | -   | +   |
| Tramadol<br>conc. (ng/mL)<br>0   | <b>site</b><br>10   | -<br>10   | +<br>0   | -<br>10  | +<br>0  | -<br>10   | +<br>0  |
| Tramadol<br>conc. (ng/mL)<br>0<br>50   | <b>site</b><br>10<br>10   | -<br>10<br>10   | +<br>0<br>0  | -<br>10<br>10  | +<br>0<br>0   | -<br>10<br>10   | +<br>0<br>0   |
| Tramadol<br>conc. (ng/mL)<br>0<br>50<br>75   | site<br>10<br>10<br>10  | -<br>10<br>10<br>9  | +<br>0<br>0<br>1   | -<br>10<br>10<br>8   | +<br>0<br>0<br>2  | -<br>10<br>10<br>8  | +<br>0<br>0<br>2  |
| Tramadol           conc. (ng/mL)           0           50           75           125   | <b>site</b> 10 10 10 10 10 10   | -<br>10<br>10<br>9<br>1   | +<br>0<br>0<br>1<br>9  | -<br>10<br>10<br>8<br>1  | +<br>0<br>2<br>9  | -<br>10<br>10<br>8<br>2   | +<br>0<br>2<br>8  |
| Tramadol           conc. (ng/mL)           0           50           75           125           150   | site<br>10<br>10<br>10  | -<br>10<br>10<br>9  | +<br>0<br>0<br>1   | -<br>10<br>10<br>8   | +<br>0<br>0<br>2  | -<br>10<br>10<br>8  | +<br>0<br>0<br>2  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)  | site<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>10<br>9<br>1<br>0  | +<br>0<br>1<br>9<br>10   | -<br>10<br>10<br>8<br>1<br>0   | +<br>0<br>2<br>9<br>10  | -<br>10<br>10<br>8<br>2<br>0  | +<br>0<br>2<br>8<br>10  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol   | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br><b>n per</b>  | -<br>10<br>10<br>9<br>1<br>0  | +<br>0<br>1<br>9<br>10<br>e A  | -<br>10<br>10<br>8<br>1<br>0   | +<br>0<br>2<br>9<br>10<br>• <b>B</b>  | -<br>10<br>10<br>8<br>2   | +<br>0<br>2<br>8<br>10  |
| Tramadol           conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol           conc. (ng/mL)  | site<br>10<br>10<br>10<br>10<br>10<br>10<br><b>n per</b><br>site  | -<br>10<br>10<br>9<br>1<br>0<br>Sit   | +<br>0<br>1<br>9<br>10<br>e A<br>+   | -<br>10<br>10<br>8<br>1<br>0<br>Site   | +<br>0<br>2<br>9<br>10<br>• B<br>+  | -<br>10<br>10<br>8<br>2<br>0<br>Site  | +<br>0<br>2<br>8<br>10<br>• C<br>+  |
| Tramadol           conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol           conc. (ng/mL)           0  | site           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10  | -<br>10<br>10<br>9<br>1<br>0<br>Site<br>-<br>10   | +<br>0<br>1<br>9<br>10<br>e A<br>+<br>0  | -<br>10<br>10<br>8<br>1<br>0<br>Site<br>10   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>• 0   | -<br>10<br>10<br>8<br>2<br>0<br>Site<br>10  | +<br>0<br>2<br>8<br>10<br>• C<br>• C  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150  | site           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10   | -<br>10<br>9<br>1<br>0<br>Site<br>-<br>10<br>10   | +<br>0<br>1<br>9<br>10<br>• <b>A</b><br>0<br>0   | -<br>10<br>10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10  | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>• 0<br>0  | -<br>10<br>10<br>8<br>2<br>0<br><b>Sit</b><br>10<br>10  | +<br>0<br>2<br>8<br>10<br>• C<br>• C<br>• 0<br>0  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225  | site           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10   | -<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9  | +<br>0<br>1<br>9<br>10<br>e A<br>-<br>0<br>0<br>1  | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>-<br>10<br>10<br>8   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>•<br>0<br>0<br>2  | -<br>10<br>10<br>8<br>2<br>0<br><b>Sit</b><br>10<br>10<br>8   | +<br>0<br>2<br>8<br>10<br>• C<br>• C<br>• 0<br>0<br>2   |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375  | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>9<br>1<br>0<br>5<br>it<br>10<br>10<br>9<br>1   | +<br>0<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>10<br>8<br>1   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>2<br>9   | -<br>10<br>10<br>8<br>2<br>0<br><b>Sit</b><br>10<br>10<br>8<br>2  | +<br>0<br>2<br>8<br>10<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           375           375           450  | site           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10   | -<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9  | +<br>0<br>1<br>9<br>10<br>e A<br>-<br>0<br>0<br>1  | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>10<br>-<br>10<br>10<br>8   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>•<br>0<br>0<br>2  | -<br>10<br>10<br>8<br>2<br>0<br><b>Sit</b><br>10<br>10<br>8   | +<br>0<br>2<br>8<br>10<br>• C<br>• C<br>• 0<br>0<br>2   |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)   | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>10<br>9<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>9<br>1<br>0  | +<br>0<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | -<br>10<br>10<br>8<br>1<br>0<br><b>Sit</b><br>-<br>10<br>10<br>8<br>1<br>0   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>0<br>2<br>9<br>10  | -<br>10<br>10<br>8<br>2<br>0<br><b>Sit</b><br>-<br>10<br>10<br>8<br>2<br>0  | +<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem  | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>9<br>1<br>0<br>5<br>10<br>10<br>10<br>9<br>1<br>0<br>5<br>1<br>0<br>5<br>1<br>0<br>5<br>1<br>1<br>5<br>5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                              | +<br>0<br>0<br>1<br>9<br>9<br>10<br>• <b>A</b><br>-<br>+<br>0<br>0<br>1<br>1<br>9<br>10<br>• <b>e A</b>  | -<br>10<br>10<br>8<br>1<br>-<br>10<br>10<br>10<br>8<br>1<br>0<br>Situ  | +<br>0<br>2<br>9<br>9<br>10<br>• B<br>+<br>0<br>0<br>2<br>9<br>10<br>• B  | - 10 10 8 2 0 0 5itu - 10 10 8 2 0 5itu - 10 0 8 2 0 5itu - 5itu | +<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>8<br>10   |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)   | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>10<br>9<br>1<br>0<br>5<br>10<br>10<br>9<br>1<br>0<br>5<br>1<br>0<br>5<br>1<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | +<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>0<br>1<br>9<br>10<br>• A<br>+<br>+   | -<br>10<br>10<br>8<br>1<br>0<br>-<br>10<br>10<br>8<br>1<br>0<br>-<br>-<br>5<br>it<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0<br>2<br>9<br>10<br>2<br>9<br>10<br>• B<br>+  | - 10 10 8 2 0 Site - 10 10 8 2 0 Site - 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   | +<br>0<br>2<br>8<br>10<br>•<br>•<br>•<br>0<br>0<br>0<br>2<br>8<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0   | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>10<br>10<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | +<br>0<br>0<br>1<br>9<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | -<br>10<br>10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>8<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>10<br>10<br>10<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>2<br>9<br>10<br>0<br>2<br>9<br>10<br>• <b>B</b><br>• <b>b</b><br>• <b>b</b><br>• <b>b</b><br>• <b>b</b><br>• <b>c</b><br>• <b>c</b><br>• <b>c</b><br>• <b>c</b>  | - 10 10 8 2 0 Situ - 10 10 8 2 0 Situ - 10 8 2 0 Situ - 10 10 10 10 10 10 10 10 10 10 10 10 10  | +<br>0<br>2<br>8<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0           25  | site           10                           | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | +<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>0<br>1<br>1<br>9<br>9<br>10<br>• A<br>+<br>0<br>0<br>0  | -<br>10<br>10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10<br>8<br>1<br>0<br>Site<br>-<br>10<br>10<br>10<br>0<br>11<br>0<br>10<br>10<br>10<br>10  | +<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0<br>0<br>2<br>0<br>0  | -<br>10<br>10<br>8<br>2<br>0<br>Situ<br>-<br>10<br>10<br>8<br>2<br>0<br>Situ<br>-<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | +<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10<br>• C<br>+<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           20LPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0           25           37.5   | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>0<br>Sitt<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                       | +<br>0<br>0<br>1<br>9<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•   | -<br>10<br>10<br>8<br>1<br>0   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>2<br>9<br>10<br>0<br>2<br>9<br>10<br>• <b>B</b><br>• <b>b</b><br>• <b>b</b><br>• <b>b</b><br>• <b>b</b><br>• <b>c</b><br>• <b>c</b><br>• <b>c</b><br>• <b>c</b>  | -<br>10<br>10<br>8<br>2<br>0<br>10<br>10<br>8<br>2<br>0   | +<br>0<br>2<br>8<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0           25           37.5           62.5  | site           10 | -<br>10<br>10<br>9<br>1<br>0<br>5<br>10<br>10<br>9<br>1<br>0<br>5<br>10<br>10<br>0<br>5<br>10<br>10<br>6<br>1   | +<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>0<br>1<br>9<br>10<br>• • A<br>• • • • • • • • • • • • • • • • •  | -<br>10<br>10<br>8<br>1<br>-<br>10<br>10<br>10<br>8<br>1<br>-<br>10<br>5<br>10<br>-<br>10<br>-<br>5<br>10<br>-<br>10<br>-<br>10<br>-<br>5<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-         | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>2<br>9<br>10<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>2<br>9<br>10<br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>CCCCCCCCCCCCC</b> | -<br>10<br>10<br>8<br>2<br>0<br>5<br>10<br>10<br>10<br>8<br>2<br>0<br>5<br>10<br>-<br>10<br>8<br>2<br>0<br>5<br>10<br>10<br>6<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | +<br>0<br>2<br>8<br>10<br>+<br>0<br>2<br>8<br>10<br>2<br>8<br>10<br>2<br>8<br>10<br>0<br>2<br>8<br>8<br>10<br>0<br>0<br>2<br>8<br>10<br>0<br>0<br>0<br>9  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0           225           37.5           62.5           75  | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>0<br>Sitt<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                       | +<br>0<br>0<br>1<br>9<br>10<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•  | -<br>10<br>10<br>8<br>1<br>0   | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>2<br>9<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>0<br>4   | -<br>10<br>10<br>8<br>2<br>0<br>10<br>10<br>8<br>2<br>0   | +<br>0<br>2<br>8<br>10<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C  |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0           25           37.5           62.5           75           ZOPICLONE (ZOP50) | site           10 | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>0<br>Sitt<br>-<br>0<br>-<br>10<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-             | +<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>9<br>10<br>• A<br>• A<br>• A<br>• A<br>• A<br>• A<br>• A<br>• A | -<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>6<br>1<br>0<br>0<br>-<br>10<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                 | +<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>0<br>2<br>9<br>10<br>• • • • • • • • • • • • • • • • • • •  | -<br>10<br>10<br>8<br>2<br>0<br>Situ<br>-<br>10<br>10<br>8<br>2<br>0<br>Situ<br>-<br>10<br>10<br>8<br>2<br>0<br>Situ<br>-<br>10<br>10<br>10<br>6<br>10<br>-<br>10<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | +<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10<br>• C<br>• +<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           225           375           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0           25           37.5           62.5           75           ZOPICLONE (ZOP50)           Zopiclone   | site           10 | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>0<br>Sitt<br>-<br>0<br>-<br>10<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-             | +<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>0<br>0<br>1<br>9<br>10<br>• • A<br>• • • • • • • • • • • • • • • • •  | -<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>6<br>1<br>0<br>0<br>-<br>10<br>0<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                 | +<br>0<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>2<br>9<br>10<br>2<br>9<br>10<br>• <b>B</b><br>+<br>0<br>0<br>2<br>9<br>10<br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>C</b> • <b>C</b><br>• <b>C</b><br>• <b>C</b><br>• <b>CCCCCCCCCCCCC</b> | -<br>10<br>10<br>8<br>2<br>0<br>5<br>10<br>10<br>10<br>8<br>2<br>0<br>5<br>10<br>-<br>10<br>8<br>2<br>0<br>5<br>10<br>10<br>6<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | +<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>0<br>2<br>8<br>10<br>• C<br>• +<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| Tramadol<br>conc. (ng/mL)           0           50           75           125           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           TRAMADOL (TML/TRA300)           Tramadol<br>conc. (ng/mL)           0           150           225           375           450           ZOLPIDEM (ZOL50)           Zolpidem<br>conc. (ng/mL)           0           25           37.5           62.5           75           ZOPICLONE (ZOP50) | site<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | -<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>9<br>1<br>0<br>Sitt<br>-<br>10<br>10<br>0<br>Sitt<br>-<br>Sitt<br>-<br>Sitt<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-             | +<br>0<br>0<br>1<br>9<br>10<br>• A<br>+<br>0<br>1<br>9<br>10<br>• A<br>• A<br>• A  | -<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>8<br>1<br>0<br>Situ<br>-<br>10<br>10<br>6<br>1<br>0<br>Situ<br>-<br>Situ<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                 | +<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>2<br>9<br>10<br>• B<br>+<br>0<br>2<br>9<br>10<br>• B<br>• 4<br>9<br>10<br>• 10<br>• 10  | -<br>10<br>10<br>8<br>2<br>0<br>Situ<br>-<br>10<br>10<br>8<br>2<br>0<br>Situ<br>-<br>10<br>10<br>6<br>1<br>0<br>Situ<br>-<br>Situ<br>-<br>Situ<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | +<br>0<br>2<br>8<br>10<br>• C<br>+<br>0<br>2<br>8<br>10<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C<br>• C   |

| 25                                       |          | - 1      | 1(       | 2        | 1        | 0        | 0        | T        | 10       |          | 0        | T        | 10       | _        | 0        |          |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 37.5                                     |          |          | 10       | -        | g        | -        | 1        |          | 9        | <u> </u> | 1        |          | 9        |          | 1        |          |
| 62.5                                     |          |          | 10       | -        | 1        |          | 9        |          | 9<br>1   | _        | 9        | -        | 2        | -        | 8        | _        |
| 75                                       |          |          | 10       | -        | 0        |          | 10       |          | 0        | _        | 10       |          | 0        | -        | 10       | _        |
| ALCOHOL (ALC 0.0                         | 4%)      |          |          | <u> </u> |          | · .      |          | , ,      | 0        |          | 10       |          | 0        |          | 10       |          |
| Alcohol                                  |          | T        | np       | er       |          | Site     | A        | T        |          | Site     | в        |          |          | Site     | С        |          |
| Conc. (ng/ml                             | _)       |          | Si       | te       | -        |          | +        |          | -        |          | +        |          | -        |          | +        |          |
| 0  |          |          | 1(       | )        | 1        | 0        | 0        |          | 10       | )        | 0        |          | 10       |          | 0        |          |
| 0.04%                                    |          |          | 1(       | -        | C        | )        | 1(       |          | 0        |          | 10       |          | 0        |          | 10       |          |
| 0.08%                                    |          |          | 1(       | -        | C        |          | 1(       |          | 0        |          | 10       |          | 0        |          | 10       |          |
| A drug-free urine p<br>summarized below. |          |          |          | ed w     | _        | rugs     | at t     | he li    | sted     |          |          |          |          |          |          |          |
| Drug Concentration                       | -        | AM       | A        |          | AN       |          | A        |          | B        |          |          | ٩R       |          | JP       |          | zo       |
| Cut-off Range                            | 1        | 0        | 1,0      | 00       | 50       |          | 3        | 00       | 30       | 00       | 20       | 00       | 1        | 0        | 5        | 00       |
| v  | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        |
| 0% Cut-off                               | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        |
| -50% Cut-off                             | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        |
| -25% Cut-off                             | 27       | 3        | 27       | 3        | 26       | 4        | 27       | 3        | 27       | 3        | 27       | 3        | 26       | 4        | 26       | 4        |
| Cut-off                                  | 15       | 15       | 14       | 16       | 15       | 15       | 15       | 15       | 16       | 14       | 15       | 15       | 14       | 16       | 15       | 15       |
| +25% Cut-off                             | 3        | 27       | 3        | 27       | 3        | 27       | 4        | 26       | 4        | 26       | 3        | 27       | 3        | 27       | 3        | 27       |
| +50% Cut-off                             | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       |
| +300% Cut-off                            | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       |
| Drug Concentration<br>Cut-off Range      |          | 20       | 20       | 2O<br>00 |          | 00       |          | CL<br>00 | 3(       | 0C       | 1        | DC<br>50 |          | 0C       | 2        | ОТ<br>00 |
| _  | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        |
| 0% Cut-off                               | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        |
| -50% Cut-off                             | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        |
| -25% Cut-off<br>Cut-off                  | 27<br>15 | 3<br>15  | 27<br>14 | 3<br>16  | 27<br>14 | 3<br>16  | 27<br>16 | 3<br>14  | 26<br>15 | 4<br>15  | 27<br>15 | 3<br>15  | 27<br>16 | 3<br>14  | 27<br>15 | 3<br>15  |
| +25% Cut-off                             | 4        | 26       | 3        | 27       | 3        | 27       | 4        | 26       | 3        | 15       | 3        | 27       | 4        | 14<br>26 | 4        | 26       |
| +25% Cut-off<br>+50% Cut-off             | 4        | 20<br>30 | 3        | 30       | 3        | 30       | 4        | 20<br>30 | 3        | 30       | 3        | 30       | 4        | 20<br>30 | 4        | 26<br>30 |
| +300% Cut-off                            | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       |
| +300 % Cut-011                           | 0        | 30       | U        | 50       | U        | 30       | U        | 30       | 0        | 30       | U        | 30       | U        | 50       | 0        | 30       |
| Drug Concentration                       |          | т        |          | DP       | ED       |          |          | ſG       | -        | YL       | -        | YL       |          | ٩B       |          | (2       |
| Cut-off Range                            | 10       | 00       | 30       | 00       | 10       | 00       | 5        | 00       | 2        | 0        | 1        | 0        | 2,0      | 00       | 5        | 60       |
| -  | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        |
| 0% Cut-off                               | 30       | 0        | 30       | 0        | 30       | 0        | 20       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        |
| -50% Cut-off                             | 30       | 0        | 30       | 0        | 30       | 0        | 20       | 0        | 30       | 0        | 30       | 0        | 30<br>23 | 0        | 30       | 0        |
| -25% Cut-off                             | 27       | 3        | 27<br>14 | 3        | 27<br>14 | 3        | 18       | 2        | 27       | 3        | 27       | 3        | 23       | 16       | 27       | 3        |
| Cut-off                                  | 15<br>4  | 15       | 14       | 16       | 14       | 16<br>26 | 12<br>3  | 8<br>17  | 15       | 15<br>27 | 15<br>3  | 15<br>27 | 14       | 16<br>26 | 15<br>3  | 15<br>27 |
| +25% Cut-off<br>+50% Cut-off             | 4        | 26<br>30 | 4        | 26<br>30 | 4        | 20<br>30 | 3        | 20       | 3        | 30       | 3        | 30       | 4        | 20       | 3        | 30       |
| +50% Cut-off<br>+300% Cut-off            | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 20       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       |
| +300% Cut-off                            | U        | 30       | U        | 30       | U        | 30       | U        | 20       | U        | 30       | U        | 30       | U        | 30       | 0        | 30       |
|  | ĸ        | 2        | ĸ        | 2+       | K        | т        | ĸ        | ET       | K        | ΕТ       | K        | RA       | LS       | SD       | MD       | MA       |
| Drug Concentration                       | 3        | 0        | 1        | 0        | 1,0      | 00       | 5        | 00       | 30       | 00       | 10       | 00       | 5        | 0        | 1,0      | 000      |
| Cut-off Range                            | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | -        | +        | •        | +        |
| 0% Cut-off                               | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        |
| -50% Cut-off                             | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        | 30       | 0        |
| -25% Cut-off                             | 27       | 3        | 27       | 3        | 26       | 4        | 27       | 3        | 26       | 4        | 25       | 5        | 27       | 3        | 26       | 4        |
| Cut-off                                  | 15       | 15       | 14       | 16       | 16       | 14       | 15       | 15       | 14       | 16       | 14       | 16       | 15       | 15       | 15       | 15       |
| +25% Cut-off                             | 3        | 27       | 4        | 26       | 4        | 26       | 3        | 27       | 4        | 26       | 3        | 27       | 4        | 26       | 5        | 25       |
|  | <b>•</b> | 00       |          | 20       | 0        | 20       |          | 30       | 0        | 20       | 0        | 30       | 0        | 30       | 0        | 30       |
| +50% Cut-off<br>+300% Cut-off            | 0        | 30<br>30 | 0        | 30<br>30 | 0        | 30<br>30 | 0        | 30       | 0        | 30<br>30 | 0        | 30       | 0        | 30       | 0        | 30       |

| Drug Concentration<br>Cut-off Range  |   | MA<br>00  | MD<br>3,0  |  | MD<br>1,0  | PV<br>00   | MI<br>1,0  | ET<br>000  | MI<br>50   |  | MI<br>30  |  | M(<br>30  | OP<br>00   |   | OP<br>00  |
|--|---|---|--|--|--|--|--|--|--|--|---|--|---|--|---|---|
| Cut-on Kange   | -   | +   | -  | +  | -  | +  | -  | +  | -  | +  | -   | +  | -   | +  | -   | +   |
| 0% Cut-off   | 30  | 0   | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30  | 0  | 30  | 0  | 30  | 0   |
| -50% Cut-off   | 30  | 0   | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30  | 0  | 30  | 0  | 30  | 0   |
| -25% Cut-off   | 25  | 5   | 27   | 3  | 27   | 3  | 26   | 4  | 25   | 5  | 27  | 3  | 26  | 4  | 27  | 3   |
| Cut-off  | 14  | 16  | 18   | 12   | 18   | 12   | 14   | 16   | 15   | 15   | 16  | 14   | 15  | 15   | 16  | 14  |
| +25% Cut-off   | 4   | 26  | 4  | 26   | 4  | 26   | 3  | 27   | 4  | 26   | 3   | 27   | 3   | 27   | 4   | 26  |
| +50% Cut-off   | 0   | 30  | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0   | 30   | 0   | 30   | 0   | 30  |
| +300% Cut-off  | 0   | 30  | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0   | 30   | 0   | 30   | 0   | 30  |
| Drug Concentration   |   | OP<br>00  | MI<br>1  | PD<br>50   | M0<br>30   | 2L<br>00   | M <sup>*</sup><br>30   | TD<br>00   | M1<br>20   | ГD<br>00   | 0<br>2,0  | PI<br>100  | -   | PI<br>000  | -   | KY<br>00  |
| Cut-off Range  | -   | +   | -  | +  | -  | +  | -  | +  | -  | +  | -   | +  | -   | +  | -   | +   |
| 0% Cut-off   | 30  | 0   | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30  | 0  | 30  | 0  | 30  | 0   |
| -50% Cut-off   | 30  | 0   | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30  | 0  | 30  | 0  | 30  | 0   |
| -25% Cut-off   | 27  | 3   | 27   | 3  | 27   | 3  | 27   | 3  | 27   | 3  | 27  | 3  | 27  | 3  | 27  | 3   |
| Cut-off  | 16  | 14  | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15  | 15   | 15  | 15   | 16  | 14  |
| +25% Cut-off   | 4   | 26  | 4  | 26   | 3  | 27   | 3  | 27   | 3  | 27   | 4   | 26   | 4   | 26   | 4   | 26  |
| +50% Cut-off   | 0   | 30  | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0   | 30   | 0   | 30   | 0   | 30  |
| +300% Cut-off  | 0   | 30  | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0   | 30   | 0   | 30   | 0   | 30  |
| Drug Concentration   |   | CP  | P0<br>2.0  | <b>B</b>   | PC   | ЭВ<br>)0   |  | 3B<br>00   | PF<br>3(   |  |   | CA<br>00   |   | CA<br>00   |   | 1C<br>50  |
| Cut-off Range  |   | 5   | 2,0  | +  | ~  | +  | 51   | +  | 31   | +  | 10  | +  | 50  | +  | 13  | +   |
| 0% Cut-off   | 30  | +<br>0  | 30   | +<br>0   | 30   | 0  | 30   | +<br>0   | 30   | 0  | 30  | +<br>0   | 30  | 0  | 30  | 0   |
| -50% Cut-off   | 30  | 0   | 30   | 0  | 30   | 0  | 30   | 0  | 30   | 0  | 30  | 0  | 30  | 0  | 30  | 0   |
|  |   | -   |  |  |  |  |  |  |  |  |   | -  |   |  |   |   |
| -25% Cut-off   | 26  | 4   | 3  | 27   | 27   | 3  | 27   | 3  | 27   | 3  | 25  | 5  | 25  | 5  | 27  | 3   |
| -25% Cut-off<br>Cut-off  | 26<br>14  | 4   | 3<br>15  | 27<br>15   | 27<br>14   | 3<br>16  | 27<br>14   | 3<br>16  | 27<br>14   | 3<br>16  | 25<br>15  | 5<br>15  | 25<br>15  | 5<br>15  | 27<br>15  | 3<br>15   |
|  |   |   |  |  |  | -  |  | -  |  | -  |   | -  | -   | -  |   |   |
| Cut-off  | 14  | 16  | 15   | 15   | 14   | 16   | 14   | 16   | 14   | 16   | 15  | 15   | 15  | 15   | 15  | 15  |
| Cut-off<br>+25% Cut-off  | 14<br>3   | 16<br>27  | 15<br>4  | 15<br>26   | 14<br>4  | 16<br>26   | 14<br>4  | 16<br>26   | 14<br>4  | 16<br>26   | 15<br>3   | 15<br>27   | 15<br>3   | 15<br>27   | 15<br>4   | 15<br>26  |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off  | 14<br>3<br>0  | 16<br>27<br>30  | 15<br>4<br>0   | 15<br>26<br>30   | 14<br>4<br>0   | 16<br>26<br>30   | 14<br>4<br>0   | 16<br>26<br>30   | 14<br>4<br>0   | 16<br>26<br>30   | 15<br>3<br>0  | 15<br>27<br>30   | 15<br>3<br>0  | 15<br>27<br>30   | 15<br>4<br>0  | 15<br>26<br>30  |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off   | 14<br>3<br>0  | 16<br>27<br>30  | 15<br>4<br>0   | 15<br>26<br>30<br>30   | 14<br>4<br>0   | 16<br>26<br>30<br>30   | 14<br>4<br>0   | 16<br>26<br>30   | 14<br>4<br>0   | 16<br>26<br>30<br>30   | 15<br>3<br>0  | 15<br>27<br>30<br>30   | 15<br>3<br>0  | 15<br>27<br>30<br>30   | 15<br>4<br>0  | 15<br>26<br>30<br>30  |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br>Drug Concentration   | 14<br>3<br>0<br>0<br>TH   | 16<br>27<br>30<br>30  | 15<br>4<br>0<br>0  | 15<br>26<br>30<br>30   | 14<br>4<br>0<br>0  | 16<br>26<br>30<br>30   | 14<br>4<br>0<br>0  | 16<br>26<br>30<br>30   | 14<br>4<br>0   | 16<br>26<br>30<br>30   | 15<br>3<br>0<br>0   | 15<br>27<br>30<br>30   | 15<br>3<br>0<br>0<br><b>Z</b>   | 15<br>27<br>30<br>30   | 15<br>4<br>0<br>0<br><b>Z</b>   | 15<br>26<br>30<br>30  |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br>Drug Concentration<br>Cut-off Range  | 14<br>3<br>0<br>0<br>TH<br>5<br>-                                     | 16<br>27<br>30<br>30<br>40<br><b>+</b>  | 15<br>4<br>0<br>0<br>TH<br>2<br>-                                | 15<br>26<br>30<br>30<br>40<br>5<br>+                                     | 14<br>4<br>0<br>0<br>TH<br>60<br>-                                     | 16<br>26<br>30<br>30<br>30<br><b>IC</b><br>00<br>+                       | 14<br>4<br>0<br>0<br>TH<br>2<br>-                                | 16<br>26<br>30<br>30<br>30<br><b>HC</b><br>0<br>+                        | 14<br>4<br>0<br>0<br>TM<br>30<br>-                     | 16<br>26<br>30<br>30<br>30<br><b>//L</b><br><b>//</b><br><b>//</b><br><b>//</b><br><b>//</b> | 15<br>3<br>0<br>0<br>TM<br>10<br>-                                | 15<br>27<br>30<br>30<br>30<br><b>//L</b><br><b>//</b><br><b>//</b><br><b>//</b><br><b>//</b> | 15<br>3<br>0<br>0<br><b>20</b><br>5<br>-                              | 15<br>27<br>30<br>30<br>30<br>DL<br>6<br>+                               | 15<br>4<br>0<br>0<br><b>ZC</b><br>5                                   | 15<br>26<br>30<br>30<br><b>DP</b><br>0<br>+                             |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br>Drug Concentration<br>Cut-off Range<br>0% Cut-off  | 14<br>3<br>0<br>0<br><b>TH</b><br>5<br>-<br>30                        | 16<br>27<br>30<br>30<br><b>1C</b><br>60<br>+<br>0   | 15<br>4<br>0<br>0<br>TH<br>2<br>-<br>30                          | 15<br>26<br>30<br>30<br><b>1C</b><br>5<br>+<br>0                         | 14<br>4<br>0<br>0<br><b>Th</b><br>60<br>-<br>30                        | 16<br>26<br>30<br>30<br>30<br><b>IC</b><br>00<br>+<br>0                  | 14<br>4<br>0<br>0<br>TH<br>2<br>-<br>30                          | 16<br>26<br>30<br>30<br>4C<br>0<br>+<br>0                                | 14<br>4<br>0<br>0<br>0<br>TM<br>30<br>-<br>30          | 16<br>26<br>30<br>30<br>30<br><b>//L</b><br>00<br>+<br>0                                     | 15<br>3<br>0<br>0<br>10<br>-<br>30                                | 15<br>27<br>30<br>30<br>30<br><b>/L</b><br>00<br>+<br>0                                      | 15<br>3<br>0<br>0<br><b>20</b><br>5<br>-<br>30                        | 15<br>27<br>30<br>30<br>0<br>0<br>+<br>0                                 | 15<br>4<br>0<br>0<br><b>20</b><br>5<br>-<br>30                        | 15<br>26<br>30<br>30<br><b>DP</b><br>0<br>+<br>0                        |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br>Drug Concentration<br>Cut-off Range<br>0% Cut-off<br>-50% Cut-off  | 14<br>3<br>0<br>0<br><b>Th</b><br>5<br>-<br>30<br>30                  | 16<br>27<br>30<br>30<br><b>1C</b><br>60<br>+<br>0   | 15<br>4<br>0<br>0<br><b>TH</b><br>2<br>-<br>30<br>30             | 15<br>26<br>30<br>30<br><b>1C</b><br>5<br><b>+</b><br>0<br>0             | 14<br>4<br>0<br>0<br><b>Th</b><br>60<br>-<br>30<br>30                  | 16<br>26<br>30<br>30<br>30<br><b>1C</b><br>00<br>+<br>0                  | 14<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30                  | 16<br>26<br>30<br>30<br>30<br><b>1C</b><br>0<br>+<br>0<br>0              | 14<br>4<br>0<br>0<br>0<br><b>Th</b><br><b>30</b><br>30 | 16<br>26<br>30<br>30<br>30<br><b>/L</b><br>00<br>+<br>0                                      | 15<br>3<br>0<br>0<br><b>TM</b><br>10<br>-<br>30<br>30             | 15<br>27<br>30<br>30<br>30<br><b>/L</b><br>0<br><b>+</b><br>0<br>0                           | 15<br>3<br>0<br>0<br>5<br>5<br>30<br>30                               | 15<br>27<br>30<br>30<br>30<br><b>DL</b><br>0<br>+<br>0<br>0              | 15<br>4<br>0<br>0<br><b>20</b><br>5<br>-<br>30<br>30                  | 15<br>26<br>30<br>30<br><b>DP</b><br>0<br>+<br>0<br>0                   |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br>Cut-off Range<br>0% Cut-off<br>-50% Cut-off<br>-25% Cut-off  | 14<br>3<br>0<br>0<br><b>TH</b><br>5<br>-<br>30<br>30<br>26            | 16<br>27<br>30<br>30<br><b>HC</b><br>60<br>+<br>0<br>0<br>4   | 15<br>4<br>0<br>0<br><b>TH</b><br>2<br>30<br>30<br>27            | 15<br>26<br>30<br>30<br><b>IC</b><br>5<br><b>+</b><br>0<br>0<br>3        | 14<br>4<br>0<br>0<br><b>TH</b><br>60<br>-<br>30<br>30<br>26            | 16<br>26<br>30<br>30<br>4<br><b>1</b><br>0<br>0<br>4                     | 14<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30<br>27            | 16<br>26<br>30<br>30<br>4C<br>0<br>+<br>0<br>3                           | 14<br>4<br>0<br>0<br>0<br><b>™</b><br>30<br>30<br>27   | 16<br>26<br>30<br>30<br><b>/L</b><br>0<br><b>+</b><br>0<br>3                                 | 15<br>3<br>0<br>0<br><b>TM</b><br>10<br>-<br>30<br>30<br>27       | 15<br>27<br>30<br>30<br><b>/L</b><br>0<br><b>+</b><br>0<br>3                                 | 15<br>3<br>0<br>0<br><b>ZC</b><br>5<br>-<br>30<br>30<br>27            | 15<br>27<br>30<br>30<br><b>DL</b><br>0<br>+<br>0<br>0<br>3               | 15<br>4<br>0<br>0<br><b>ZC</b><br>5<br>-<br>30<br>30<br>28            | 15<br>26<br>30<br>30<br><b>DP</b><br>0<br>+<br>0<br>0<br>2              |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br><b>Drug Concentration</b><br>Cut-off Range<br>0% Cut-off<br>-50% Cut-off<br>-25% Cut-off<br>Cut-off                      | 14<br>3<br>0<br>0<br><b>Th</b><br>5<br>30<br>30<br>26<br>14           | 16<br>27<br>30<br>30<br><b>1C</b><br><b>0</b><br><b>1</b><br><b>0</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b> | 15<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30<br>27<br>16      | 15<br>26<br>30<br>30<br><b>1C</b><br>5<br>•<br>•<br>0<br>0<br>3<br>14    | 14<br>4<br>0<br>0<br><b>Th</b><br>60<br>-<br>30<br>30<br>26<br>15      | 16<br>26<br>30<br>30<br>30<br><b>IC</b><br>00<br>+<br>0<br>0<br>4<br>15  | 14<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30<br>27<br>16      | 16<br>26<br>30<br>30<br><b>1C</b><br>0<br><b>+</b><br>0<br>0<br>3<br>14  | 14<br>4<br>0<br>0<br><b>TM</b><br>30<br>30<br>27<br>14 | 16<br>26<br>30<br>30<br><b>AL</b><br>00<br>+<br>0<br>0<br>3<br>16                            | 15<br>3<br>0<br>0<br><b>TM</b><br>10<br>-<br>30<br>30<br>27<br>14 | 15<br>27<br>30<br>30<br><b>AL</b><br>0<br><b>+</b><br>0<br>0<br>3<br>16                      | 15<br>3<br>0<br>0<br><b>20</b><br>5<br>-<br>30<br>30<br>27<br>15      | 15<br>27<br>30<br>30<br><b>DL</b><br>0<br><b>t</b><br>0<br>3<br>15       | 15<br>4<br>0<br>0<br><b>20</b><br>5<br>-<br>30<br>30<br>28<br>14      | 15<br>26<br>30<br>30<br><b>DP</b><br>0<br><b>+</b><br>0<br>0<br>2<br>16 |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br><b>Drug Concentration</b><br>Cut-off Range<br>0% Cut-off<br>-50% Cut-off<br>-25% Cut-off<br>+25% Cut-off<br>+25% Cut-off | 14<br>3<br>0<br>0<br><b>Th</b><br>5<br>-<br>30<br>30<br>26<br>14<br>3 | 16<br>27<br>30<br>30<br><b>1C</b><br><b>60</b><br><b>+</b><br>0<br>0<br>4<br>16<br>27   | 15<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30<br>27<br>16<br>4 | 15<br>26<br>30<br>30<br><b>1C</b><br>5<br><b>+</b><br>0<br>3<br>14<br>26 | 14<br>4<br>0<br>0<br><b>Th</b><br>60<br>-<br>30<br>30<br>26<br>15<br>4 | 16<br>26<br>30<br>30<br><b>1C</b><br>0<br><b>1</b><br>0<br>4<br>15<br>26 | 14<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30<br>27<br>16<br>4 | 16<br>26<br>30<br>30<br><b>1C</b><br>0<br><b>+</b><br>0<br>3<br>14<br>26 | 14<br>4<br>0<br>0<br>30<br>30<br>27<br>14<br>4         | 16<br>26<br>30<br>30<br><b>/L</b><br>0<br><b>/</b><br>0<br><b>/</b><br>0<br>3<br>16<br>26    | 15<br>3<br>0<br>0<br>10<br>-<br>30<br>30<br>27<br>14<br>4         | 15<br>27<br>30<br>30<br><b>/L</b><br>0<br><b>/</b><br>0<br>3<br>16<br>26                     | 15<br>3<br>0<br>0<br><b>ZC</b><br>5<br>-<br>30<br>30<br>27<br>15<br>4 | 15<br>27<br>30<br>30<br><b>DL</b><br>0<br><b>+</b><br>0<br>3<br>15<br>26 | 15<br>4<br>0<br>0<br><b>ZC</b><br>5<br>-<br>30<br>30<br>28<br>14<br>3 | 15<br>26<br>30<br>30<br><b>DP</b><br>0<br>+<br>0<br>0<br>2<br>16<br>27  |
| Cut-off<br>+25% Cut-off<br>+50% Cut-off<br>+300% Cut-off<br><b>Drug Concentration</b><br>Cut-off Range<br>0% Cut-off<br>-50% Cut-off<br>-25% Cut-off<br>Cut-off                      | 14<br>3<br>0<br>0<br><b>TH</b><br>5<br>30<br>30<br>26<br>14           | 16<br>27<br>30<br>30<br><b>1C</b><br><b>0</b><br><b>1</b><br><b>0</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b> | 15<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30<br>27<br>16      | 15<br>26<br>30<br>30<br><b>1C</b><br>5<br>•<br>•<br>0<br>0<br>3<br>14    | 14<br>4<br>0<br>0<br><b>Th</b><br>60<br>-<br>30<br>30<br>26<br>15      | 16<br>26<br>30<br>30<br>30<br><b>IC</b><br>00<br>+<br>0<br>0<br>4<br>15  | 14<br>4<br>0<br>0<br><b>Th</b><br>2<br>30<br>30<br>27<br>16      | 16<br>26<br>30<br>30<br><b>1C</b><br>0<br><b>+</b><br>0<br>0<br>3<br>14  | 14<br>4<br>0<br>0<br><b>TM</b><br>30<br>30<br>27<br>14 | 16<br>26<br>30<br>30<br><b>AL</b><br>00<br>+<br>0<br>0<br>3<br>16                            | 15<br>3<br>0<br>0<br><b>TM</b><br>10<br>-<br>30<br>30<br>27<br>14 | 15<br>27<br>30<br>30<br><b>AL</b><br>0<br><b>+</b><br>0<br>0<br>3<br>16                      | 15<br>3<br>0<br>0<br><b>20</b><br>5<br>-<br>30<br>30<br>27<br>15      | 15<br>27<br>30<br>30<br><b>DL</b><br>0<br><b>t</b><br>0<br>3<br>15       | 15<br>4<br>0<br>0<br><b>20</b><br>5<br>-<br>30<br>30<br>28<br>14      | 15<br>26<br>30<br>30<br><b>DP</b><br>0<br><b>+</b><br>0<br>0<br>2<br>16 |

Analytical Specificity The following table lists the concentrations of compounds (ng/mL) that are detected as positive in urine by the Drug Rapid Test at 5 minutes.

| Analytes                 | Concentration<br>(ng/mL) | Analytes    | Concentration<br>(ng/mL) |
|--------------------------|--------------------------|-------------|--------------------------|
|                          | 6-                       | VAM10       |                          |
| 6-Monoacetylmorphine     | 10                       | Morphine    | >100,000                 |
| Diacetylmorphine(herion) | 25                       | Codeine     | >100,000                 |
| Oxycodone                | >100,000                 | Oxymorphone | >100,000                 |
|                          | AN                       | IP1,000     | •                        |
| D,L-Amphetamine sulfate  | 200                      | Phentermine | 800                      |
| L-Amphetamine            | 25,000                   | Maprotiline | 50,000                   |

| (±) 3,4-Methylenedioxy       |        | Methoxyphenamine    | 6,000  |
|------------------------------|--------|---------------------|--------|
| amphetamine                  | 400    | D-Amphetamine       | 1.000  |
| amprictamine                 |        | AMP500              | 1,000  |
| D,L-Amphetamine sulfate      | 100    | Phentermine         | 400    |
| L-Amphetamine                | 12,500 | Maprotiline         | 25,000 |
| (±) 3,4-Methylenedioxy       |        | Methoxyphenamine    | 3,000  |
| amphetamine                  | 200    | D-Amphetamine       | 500    |
|                              |        | AMP300              | 000    |
| D,L-Amphetamine sulfate      | 70     | Phentermine         | 300    |
| L-Amphetamine                | 10,000 | Maprotiline         | 12,500 |
| (±) 3,4-Methylenedioxy       |        | Methoxyphenamine    | 2.000  |
| amphetamine                  | 150    | D-Amphetamine       | 300    |
| •                            |        | BAR300              |        |
| Amobarbital                  | 3,000  | Alphenol            | 300    |
| 5,5-Diphenylhydantoin        | 6,000  | Aprobarbital        | 450    |
| Allobarbital                 | 450    | Butabarbital        | 150    |
| Barbital                     | 6,000  | Butalbital          | 6,000  |
| Talbutal                     | 30     | Butethal            | 450    |
| Cyclopentobarbital           | 25,000 | Phenobarbital       | 300    |
| Pentobarbital                | 6,000  | Secobarbital        | 300    |
|                              |        | BAR200              |        |
| Amobarbital                  | 2,000  | Alphenol            | 200    |
| 5,5-Diphenylhydantoin        | 4,000  | Aprobarbital        | 300    |
| Allobarbital                 | 300    | Butabarbital        | 100    |
| Barbital                     | 4,000  | Butalbital          | 4,000  |
| Talbutal                     | 20     | Butethal            | 300    |
| Cyclopentobarbital           | 17,000 | Phenobarbital       | 200    |
| Pentobarbital                | 4,000  | Secobarbital        | 200    |
|                              |        | BUP10               |        |
| Buprenorphine                | 10     | Norbuprenorphine    | 50     |
| Buprenorphine 3-D-Glucuronid | e 50   | Norbuprenorphine    | 100    |
|                              |        | 3-D-Glucuronide     |        |
|                              |        | BZO500              |        |
| Alprazolam                   | 200    | Bromazepam          | 1,300  |
| a-hydroxyalprazolam          | 2,500  | Chlordiazepoxide    | 1,300  |
| Clobazam                     | 300    | Nitrazepam          | 300    |
| Clonazepam                   | 650    | Norchlordiazepoxide | 200    |
| Clorazepate dipotassium      | 650    | Nordiazepam         | 1,300  |
| Delorazepam                  | 1,300  | Oxazepam            | 500    |
| Desalkylflurazepam           | 300    | Temazepam           | 200    |
| Flunitrazepam                | 300    | Diazepam            | 2,500  |
| (±) Lorazepam                | 5,000  | Estazolam           | 10,500 |
| RS-Lorazepam glucuronide     | 300    | Triazolam           | 5,000  |
| Midazolam                    | 10,500 |                     |        |
|                              |        | BZO300              |        |
| Alprazolam                   | 100    | Bromazepam          | 780    |
| a-hydroxyalprazolam          | 1,500  | Chlordiazepoxide    | 780    |
| Clobazam                     | 200    | Nitrazepam          | 200    |
| Clonazepam                   | 390    | Norchlordiazepoxide | 100    |
| Clorazepate dipotassium      | 390    | Nordiazepam         | 780    |
| Delorazepam                  | 780    | Oxazepam            | 300    |
| Desalkylflurazepam           | 200    | Temazepam           | 100    |
| Flunitrazepam                | 200    | Diazepam            | 1,500  |
| (±) Lorazepam                | 3,100  | Estazolam           | 6,250  |
| RS-Lorazepam glucuronide     | 200    | Triazolam           | 3,100  |
| Midazolam                    | 6,250  |                     |        |

|                                |           | BZO200                  |           |
|--------------------------------|-----------|-------------------------|-----------|
| Alprazolam                     | 70        | Bromazepam              | 520       |
| a-hydroxyalprazolam            | 1,000     | Chlordiazepoxide        | 520       |
| Clobazam                       | 120       | Nitrazepam              | 120       |
| Clonazepam                     | 260       | Norchlordiazepoxide     | 70        |
| Clorazepate dipotassium        | 260       | Nordiazepam             | 520       |
| Delorazepam                    | 520       | Oxazepam                | 200       |
| Desalkylflurazepam             | 120       | Temazepam               | 70        |
| Flunitrazepam                  | 120       | Diazepam                | 1,000     |
| (±) Lorazepam                  | 2,000     | Estazolam               | 4,200     |
| RS-Lorazepam glucuronide       | 120       | Triazolam               | 2,000     |
| Midazolam                      | 4,200     |                         |           |
|                                |           | BZO100                  |           |
| Alprazolam                     | 40        | Bromazepam              | 260       |
| a-hydroxyalprazolam            | 500       | Chlordiazepoxide        | 260       |
| Clobazam                       | 60        | Nitrazepam              | 60        |
| Clonazepam                     | 130       | Norchlordiazepoxide     | 40        |
| Clorazepate dipotassium        | 130       | Nordiazepam             | 260       |
| Delorazepam                    | 260       | Oxazepam                | 100       |
| Desalkylflurazepam             | 60        | Temazepam               | 40        |
| Flunitrazepam                  | 60        | Diazepam                | 500       |
| (±) Lorazepam                  | 1,000     | Estazolam               | 2,100     |
| RS-Lorazepam glucuronide       | 60        | Triazolam               | 1,000     |
| Midazolam                      | 2,100     |                         |           |
|                                |           | O/ACL100                |           |
| 7-Amino Clonazepam             | 100       | Clonazepam              | 50,000    |
| Meclonazepam                   | >100,000  | Oxazepam                | >100,000  |
| Alprazolam                     | >100,000  | Bromazepam              | >100,000  |
| Clobazam                       | >100,000  | Clorazepate dipotassium | >100,000  |
| Desalkylflurazepam             | 75,000    | Diazepam                | >100,000  |
|                                |           | COC300                  | -         |
| Benzoylecgonine                | 300       | Cocaethylene            | 12,500    |
| Cocaine HCI                    | 200       | Ecgonine                | 30,000    |
|                                |           | COC150                  |           |
| Benzoylecgonine                | 150       | Cocaethylene            | 6,250     |
| Cocaine HCI                    | 100       | Ecgonine                | 15,000    |
|                                |           | COC100                  |           |
| Benzoylecgonine                | 100<br>80 | Cocaethylene            | 5,000     |
| Cocaine HCI                    |           | Ecgonine                | 10,000    |
| (-)-Cotinine                   | 200       | COT200<br>(-)-Nicotine  | 3,000     |
| (-)-Cotinine                   |           | COT100                  | 3,000     |
| (-)-Cotinine                   | 100       | (-)-Nicotine            | 1.500     |
| (-)-Counine                    |           | DDP300                  | 1,500     |
| 2 Ethylidana 1 E dimathyl 2 2  |           |                         | 300       |
| 2-Ethylidene-1,5-dimethyl-3,3- |           | DDP100                  | 300       |
| 2-Ethylidene-1,5-dimethyl-3,3- |           |                         | 100       |
| 2-Ethylidene-1,5-dimethyl-3,3- |           | ETG 500                 | 100       |
| Ethyl glucuronide              |           | 10.000                  | 500       |
|                                |           | FYL20                   | 000       |
| Norfentanyl                    | 20        | Fentanyl                | >100,000  |
| Trazadone                      | >100 000  | Risperidone             | >100,000  |
| Hydroxyzine HCI                | >100 000  | Buspirone HCI           | >100 000  |
| Gabapentin                     | >100 000  | 9-Hydroxyrisperidone    | >100 000  |
| Fluoxetine Hydrochloride       | >100 000  | Acetyl Fentanyl         | >100 000  |
| Ocfentanil                     | >100 000  | Furanyl Fentanyl        | >100 000  |
| Olientalli                     | - 100 000 | i uranyi rentanyi       | - 100 000 |

| Butyryl Fentanyl   | >100 000   | Valeryl Fentanyl   | >100 000  |
|--|--|--|---|
| Para-fluorofentanyl  | >100 000   | Carfentanil Oxalate  | >100 000  |
| Norcarfentanil Oxalate   | >100 000   | para-Fluorobutyryl fentanyl  | >100 000  |
| Isobutyryl fentanyl HCl  | >100 000   | Remifentanil HCI   | >100 000  |
| Sufentanil Citrate   | >100 000   | (+/-)-beta-Hydroxythiofentanyl   |   |
| Sulemani Citate  | - 100 000  | HCI  | - 100 000   |
| 4-Fluoro-isobutyryl fentanyl   | >100 000   | Cyclopropyl fentanyl HCI   | >100 000  |
| Methoxyacetyl fentanyl HCl   | >100 000   | Acetyl norfentanyl oxalate   | >100 000  |
| bromhexin  | >100 000   | ciprofloxacin  | >100 000  |
| paliperidon  | >100 000   | prometazin   | >100 000  |
| efedrin och bromhexin  | >100 000   | alfentanil   | >100 000  |
| risperidon   | >100 000   | allentarin   | - 100 000   |
| napendon   |  | YL10   |   |
| Norfentanvl  | 10   | Fentanyl   | >100.000  |
| Trazadone  | >100 000   | Risperidone  | >100,000  |
| Hydroxyzine HCI  | >100 000   | Buspirone HCI  | >100 000  |
| Gabapentin   | >100 000   | 9-Hydroxyrisperidone   | >100 000  |
| Fluoxetine Hydrochloride   | >100 000   | Acetyl Fentanyl  | >100 000  |
| Ocfentanil   | >100 000   | Furanyl Fentanyl   | >100 000  |
|  |  | Valeryl Fentanyl   | >100 000  |
| Butyryl Fentanyl   | >100 000   |  | >100 000  |
| Para-fluorofentanyl  | >100 000   | Carfentanil Oxalate  |   |
| Norcarfentanil Oxalate   | >100 000   | para-Fluorobutyryl fentanyl  | >100 000  |
| Isobutyryl fentanyl HCI  | >100 000   | Remifentanil HCI   | >100 000  |
| Sufentanil Citrate   | >100 000   | (+/-)-beta-Hydroxythiofentanyl   | >100 000  |
|  | 100.000  | HCI  | 400.000   |
| 4-Fluoro-isobutyryl fentanyl   | >100 000   | Cyclopropyl fentanyl HCI   | >100 000  |
| Methoxyacetyl fentanyl HCI   | >100 000   | Acetyl norfentanyl oxalate   | 100 000   |
| bromhexin  | >100 000   | ciprofloxacin  | >100 000  |
| paliperidon  | >100 000   | prometazin   | >100 000  |
| efedrin och bromhexin  | >100 000   | alfentanil   | >100 000  |
| risperidon   | >100 000   |  |   |
|  |  | B2,000   | 100.000   |
| Gabapentin   | 2,000  | Pregabalin   | 100,000   |
| Vigabatrin   | >100,000   | (2 50  |   |
|  |  |  | 05  |
| JWH-018 5-Pentanoic acid   | 50   | MAM2201 N-Pentanoic acid   | 65  |
| metabolite   |  |  |   |
| NA/LL 070 A but see als said   | 50   | NAULO40 NLE Ceahanna and d   | 400   |
| JWH-073 4-butanoic acid  | 50   | JWH-210 N-5-Carboxypentyl  | 400   |
| metabolite   |  |  |   |
| metabolite<br>JWH-018 4-Hydroxypentyl  | 50<br>400  | JWH-210 N-5-Carboxypentyl<br>JWH-398 N-Pentanoic acid  | 400<br>350  |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite  | 400  | JWH-398 N-Pentanoic acid   | 350   |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl   |  |  |   |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite   | 400  | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole  | 350<br>600  |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-073 4-Hydroxybutyl   | 400  | JWH-398 N-Pentanoic acid   | 350   |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-073 4-Hydroxybutyl<br>metabolite   | 400<br>600<br>300  | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl  | 350<br>600<br>1,000                                     |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-013 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid   | 400<br>600<br>300<br>30  | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl  | 350<br>600<br>1,000<br>1,000                            |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-073 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-019 6-Hydroxyhexyl   | 400<br>600<br>300<br>1,000   | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018   | 350<br>600<br>1,000<br>1,000<br>7,000                   |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-073 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-019 6-Hydroxyhexyl<br>JWH-1122 N-4-Hydroxypentyl   | 400<br>600<br>300<br>1,000<br>1,000                                      | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)   | 350<br>600<br>1,000<br>1,000<br>7,000<br>700            |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-073 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-019 6-Hydroxyhexyl   | 400<br>600<br>300<br>1,000<br>45,000                                     | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)<br>JWH-073 N-(3-hydroxybutyl)   | 350<br>600<br>1,000<br>1,000<br>7,000                   |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-013 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-019 6-Hydroxyhexyl<br>JWH-122 N-4-Hydroxypentyl<br>RCS4 N-5-Carboxypentyl  | 400<br>600<br>300<br>1,000<br>1,000<br>45,000                            | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)<br>JWH-073 N-(3-hydroxybutyl)<br>(2 30  | 350<br>600<br>1,000<br>7,000<br>700<br>450              |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-073 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-018 N-Propanoic acid<br>JWH-019 6-Hydroxypentyl<br>RCS4 N-5-Carboxypentyl<br>JWH-018 5-Pentanoic acid  | 400<br>600<br>300<br>1,000<br>45,000                                     | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)<br>JWH-073 N-(3-hydroxybutyl)   | 350<br>600<br>1,000<br>1,000<br>7,000<br>700            |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-013 4-Hydroxybutyl<br>metabolite<br>JWH-019 6-Hydroxypentyl<br>JWH-122 N-4-Hydroxypentyl<br>RCS4 N-5-Carboxypentyl<br>JWH-018 5-Pentanoic acid<br>metabolite   | 400<br>600<br>300<br>1.000<br>1.000<br>45.000<br>30                      | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)<br>JWH-073 N-(3-hydroxybutyl)<br>Z 30<br>MAM2201 N-Pentanoic acid                                       | 350<br>600<br>1,000<br>7,000<br>700<br>450<br>39        |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-013 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-018 N-Propanoic acid<br>JWH-018 6-Hydroxypentyl<br>RCS4 N-5-Carboxypentyl<br>RCS4 N-5-Carboxypentyl<br>JWH-018 5-Pentanoic acid<br>JWH-018 4-butanoic acid | 400<br>600<br>300<br>1,000<br>1,000<br>45,000                            | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)<br>JWH-073 N-(3-hydroxybutyl)<br>Z 30<br>MAM2201 N-Pentanoic acid                                       | 350<br>600<br>1,000<br>7,000<br>700<br>450              |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-018 N-Propanoic acid<br>JWH-018 N-Propanoic acid<br>MH-018 5-Pentanoic acid<br>metabolite<br>JWH-018 4-butanoic acid<br>metabolite                         | 400<br>600<br>300<br>1,000<br>1,000<br>45,000<br>45,000<br>1<br>30<br>30 | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxybexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)<br>JWH-073 N-(3-hydroxybutyl)<br>( <b>2 30</b><br>MAM2201 N-Pentanoic acid<br>JWH-210 N-5-Carboxypentyl | 350<br>600<br>1,000<br>7,000<br>700<br>450<br>39<br>240 |
| metabolite<br>JWH-018 4-Hydroxypentyl<br>metabolite<br>JWH-018 5-Hydroxypentyl<br>metabolite<br>JWH-013 4-Hydroxybutyl<br>metabolite<br>JWH-018 N-Propanoic acid<br>JWH-018 N-Propanoic acid<br>JWH-018 6-Hydroxypentyl<br>RCS4 N-5-Carboxypentyl<br>RCS4 N-5-Carboxypentyl<br>JWH-018 5-Pentanoic acid<br>JWH-018 4-butanoic acid | 400<br>600<br>300<br>1.000<br>1.000<br>45.000<br>30                      | JWH-398 N-Pentanoic acid<br>JWH-200 6-Hydroxyindole<br>JWH-073 N-2-Hydroxybutyl<br>JWH-019 5-Hydroxyhexyl<br>JWH-018<br>AM2201 N-(4-hydroxypentyl)<br>JWH-073 N-(3-hydroxybutyl)<br>Z 30<br>MAM2201 N-Pentanoic acid                                       | 350<br>600<br>1,000<br>7,000<br>700<br>450<br>39        |

| metabolite                     |         |   |           |
|--------------------------------|---------|---|-----------|
| JWH-073 4-Hydroxybutyl         | 180     | JWH-073 N-2-Hydroxybutyl                            | 600       |
| metabolite                     | 100     |   | 000       |
| JWH-018 N-Propanoic acid       | 18      | JWH-019 5-Hydroxyhexyl                              | 600       |
|                                |         | JWH-018   | 4200      |
|                                |         | AM2201 N-(4-hydroxypentyl)                          | 420       |
| RCS4 N-5-Carboxypentyl         | 27000   | JWH-073 N-(3-hydroxybutyl)                          | 270       |
| RC34 N-3-Calboxypentyl         |         | 2+10  | 270       |
| AB-PINACA pentanoic acid       | 10      | CUMYL-THPINACA                                      | >100,000  |
| metabolite                     | 10      | COMITE-THE INACA                                    | ~100,000  |
|                                | 10      | 5-fluoro AEB  | >100.000  |
| metabolite                     | 10      | S-INDIO ALD   | - 100,000 |
| ADB-PINACA                     | 15      | AB-CHMINACA metabolite                              | >100,000  |
| N-(4-hydroxypentyl) metabolite | 15      | M2  | - 100,000 |
| ADB-PINACA                     | 20      | PX 1 (5-fluoro APP-PICA)                            | >100.000  |
| N-(5-hydroxypentyl) metabolite | 20      |   | > 100,000 |
| 5-fluoro AB-PINACA             | 20      | PX 2 (5-fluoro APP-PINACA)                          | >100.000  |
| N-(4-hydroxypentyl)            | 20      |   | - 100,000 |
| ADB-PINACA pentanoic acid      | 20      | 5-fluoro ADB (5-fluoro                              | >100,000  |
| metabolite                     | 20      | MDMB-PINACA)  | > 100,000 |
| AB-PINACA N-(5-hydroxypentyl)  | 30      |   | >100,000  |
| metabolite                     | 50      |   | - 100,000 |
| 5-fluoro AB-PINACA             | 50      | MMB-FUBINACA  | >100,000  |
| AB-PINACA                      | 100     | CUMYL-PICA  | >100,000  |
| AB-FUBINACA                    | 150     | 5-fluoro MN-18                                      | >100,000  |
|                                |         | 5-110010 MIN-18<br>MN-18                            |           |
| 5-fluoro ADB-PINACA            | 250     |   | >100,000  |
| 5-chloro AB-PINACA             | 1,000   |   | >100,000  |
|                                | >10.000 | 3-carboxyindole metabolite<br>BB-22 3-carboxyindole | > 400.000 |
| APINACA (AKB-48)               | ~10,000 |   | ~100,000  |
| APINACA (AKB-48)               | >10,000 | metabolite  | > 100 000 |
|                                | ~10,000 | AM 2201 N-(4-hydroxypentyl)                         | ~100,000  |
| 5-hydroxypentyl metabolite     | KET     | metabolite  |           |
| Ketamine                       | 1,000   | 1,000   |           |
| Ketamine                       |         | T500  |           |
| Kata mia a                     |         | 1500  |           |
| Ketamine                       | 500     | 7200  |           |
|                                |         | T300  | 1         |
| Ketamine                       | 300     |   |           |
| N 414                          |         | A100  | 50.000    |
| Mitragynine                    | 100     | Olanzapine  | 50,000    |
| 7-Hydroxymitragynine           | 125     |   |           |
|                                |         | SD50  |           |
| Lysergic acid diethylamide     | 50      |   |           |
|                                | MDM     | A1, 000   |           |
| (±) 3,4-Methylenedioxy         | 1.000   | 3,4-Methylenedioxyethyl-                            | 600       |
| methamphetamine HCI            |         | amphetamine   |           |
| (±) 3,4-Methylenedioxy-        | 6,000   |   |           |
| amphetamine HCI                | -       |   |           |
|                                | MDI     | MA500   |           |
| (±) 3,4-Methylenedioxy         | 500     | 3,4-Methylenedioxyethyl-                            | 300       |
| methamphetamine HCI            |         | amphetamine   |           |
| (±) 3,4-Methylenedioxy-        | 3,000   |   |           |
| amphetamine HCI                |         | l   |           |
|                                |         | V3,000  | 1         |
| 3,4-Methylenedioxypyrovalerone |         |   |           |
|                                |         | V1,000  |           |
| 3,4-Methylenedioxypyrovalerone | 1 000   | 1   |           |

|                                    |        | MET1, 000               |         |
|------------------------------------|--------|-------------------------|---------|
| ρ-Hydroxymethamphetamine           | 25,000 | (±)-3,4-Methylenedioxy- | 6,250   |
|                                    |        | methamphetamine         |         |
| D-Methamphetamine                  | 1,000  | Mephentermine           | 50,000  |
| L-Methamphetamine                  | 12,500 |                         |         |
|                                    | -      | MET500                  |         |
| ρ-Hydroxymethamphetamine           | 12,500 | (±)-3,4-Methylenedioxy- | 3,000   |
|                                    | 500    | methamphetamine         | 05.000  |
| D-Methamphetamine                  | 500    | Mephentermine           | 25,000  |
| L-Methamphetamine                  | 9,000  | MET300                  |         |
| ρ-Hydroxymethamphetamine           | 7,500  | (±)-3,4-Methylenedioxy- | 1.800   |
| p-i iyuroxymetriamprietamine       | 7,500  | methamphetamine         | 1,000   |
| D-Methamphetamine                  | 300    | Mephentermine           | 15,000  |
| L-Methamphetamine                  | 3,750  |                         | 10,000  |
|                                    |        | OP/OPI300               |         |
| Codeine                            | 200    | Norcodeine              | 6,000   |
| Levorphanol                        | 1,500  | Normorphone             | 50,000  |
| Morphine-3-β-D-Glucuronide         | 800    | Oxycodone               | 30,000  |
| Ethylmorphine                      | 6,000  | Oxymorphone             | 50,000  |
| Hydrocodone                        | 50,000 | Procaine                | 15,000  |
| Hydromorphone                      | 3,000  | Thebaine                | 6,000   |
| 6-Monoacethylmorphine              | 400    | Morphine                | 300     |
|                                    | N      | IOP/OPI200              |         |
| Codeine                            | 160    | Norcodeine              | 4,000   |
| Levorphanol                        | 1,000  | Normorphone             | 40,000  |
| Morphine-3-β-D-Glucuronide         | 600    | Oxycodone               | 20,000  |
| Ethylmorphine                      | 4,000  | Oxymorphone             | 40,000  |
| Hydrocodone                        | 40,000 | Procaine                | 10,000  |
| Hydromorphone                      | 2,000  | Thebaine                | 4,000   |
| 6-Monoacethylmorphine              | 200    | Morphine                | 200     |
|                                    |        | IOP/OPI100              |         |
| Codeine                            | 80     | Norcodeine              | 2,000   |
| Levorphanol                        | 500    | Normorphone             | 20,000  |
| Morphine-3-β-D-Glucuronide         | 300    | Oxycodone               | 10,000  |
| Ethylmorphine                      | 2,000  | Oxymorphone             | 20,000  |
| Hydrocodone                        | 20,000 | Procaine                | 5,000   |
| Hydromorphone                      | 1,000  | Thebaine                | 2,000   |
| 6-Monoacethylmorphine              | 100    | Morphine<br>MPD150      | 100     |
| N 4 - 4 h - 1 - h - 1 - i al - 4 - | 150    | MPD150                  |         |
| Methylphenidate                    | 150    | MQL300                  |         |
| Mathagualana                       | 300    | MQL300                  |         |
| Methaqualone                       | 500    | MTD300                  | 1       |
| Methadone                          | 300    | Doxylamine              | 100,000 |
| Methadulie                         | 000    | MTD200                  | 100,000 |
| Methadone                          | 200    | Doxylamine              | 60,000  |
|                                    | 200    | OPI2,000                | 00,000  |
| Codeine                            | 2,000  | Morphine                | 2,000   |
| Ethylmorphine                      | 3.000  | Norcodeine              | 25,000  |
| Hydrocodone                        | 50,000 | Normorphone             | 50,000  |
| Hydromorphone                      | 12,500 | Oxycodone               | 25,000  |
| Levorphanol                        | 25,000 | Oxymorphone             | 25,000  |
| 6-Monoacetylmorphine               | 3,000  | Procaine                | 50,000  |
| Morphine 3-β-D-glucuronide         | 2,000  | Thebaine                | 25,000  |
|                                    |        | OPI1,000                |         |

| Codeine                            | 1.000  | Morphine               | 1,000  |
|------------------------------------|--------|------------------------|--------|
| Ethylmorphine                      | 1,500  | Norcodeine             | 12,500 |
| Hydrocodone                        | 25,000 | Normorphone            | 25,000 |
| Hydromorphone                      | 6,250  | Oxycodone              | 12,500 |
| Levorphanol                        | 12,500 | Oxymorphone            | 12,500 |
| 6-Monoacetylmorphine               | 1,500  | Procaine               | 25,000 |
| Morphine 3-B-D-glucuronide         | 1,000  | Thebaine               | 12,500 |
| Morphine o p D glucuronide         | 1,000  | OXY100                 | 12,000 |
| Oxycodone                          | 100    | Hydromorphone          | 50,000 |
| Oxymorphone                        | 200    | Naloxone               | 25,000 |
| Levorphanol                        | 50,000 | Naltrexone             | 25,000 |
| Hydrocodone                        | 6,250  | i la la chorito        | 20,000 |
| i lýdi obodolilo                   | 0,200  | PCP25                  |        |
| Phencyclidine                      | 25     | 4-Hydroxyphencyclidine | 6,250  |
| i nenoyonane                       |        | PGB2,000               | 0,200  |
| Pregabalin                         | 2.000  | 1 0.02,000             |        |
| riegabailit                        | 2,000  | PGB700                 |        |
| Pregabalin                         | 700    |                        |        |
| Fiegaballit                        | 700    | PGB500                 |        |
| Pregabalin                         | 500    | F00000                 |        |
| Pregabalin                         | 500    | PPY222                 |        |
|                                    | 000    | PPX300                 | 000    |
| D-Propoxyphene                     | 300    | D-Norpropoxyphene      | 300    |
|                                    |        | TCA1,000               |        |
| Nortriptyline                      | 1,000  | Imipramine             | 400    |
| Nordoxepine                        | 400    | Clomipramine           | 50,000 |
| Trimipramine                       | 3,000  | Doxepine               | 1,500  |
| Amitriptyline                      | 1,500  | Maprotiline            | 1,500  |
| Promazine                          | 3,000  | Promethazine           | 25,000 |
| Desipramine                        | 200    | Perphenazine           | 25,000 |
| Cyclobenzaprine                    | 1,500  |                        |        |
|                                    |        | TCA500                 |        |
| Nortriptyline                      | 500    | Imipramine             | 200    |
| Nordoxepine                        | 200    | Clomipramine           | 25,000 |
| Trimipramine                       | 1,500  | Doxepine               | 750    |
| Amitriptyline                      | 750    | Maprotiline            | 750    |
| Promazine                          | 1,500  | Promethazine           | 12,500 |
| Desipramine                        | 100    | Perphenazine           | 12,500 |
| Cyclobenzaprine                    | 750    |                        |        |
|                                    |        | THC150                 |        |
| Cannabinol                         | 50,000 | ∆8-THC                 | 45,000 |
| 11-nor-△8-THC-9 COOH               | 90     | △9-THC                 | 45,000 |
| 11-nor-△9-THC-9 COOH               | 150    |                        |        |
|                                    | 1      | THC50                  |        |
| Cannabinol                         | 20,000 | ∆8-THC                 | 15,000 |
| 11-nor-△8-THC-9 COOH               | 30     | ∆9-THC                 | 15,000 |
| 11-nor-△9-THC-9 COOH               | 50     |                        | .5,000 |
|                                    | 00     | THC25                  | 1      |
| Cannabinol                         | 10,000 | ∆8-THC                 | 7,500  |
| 11-nor-△8-THC-9 COOH               | 15     | ∆9-THC                 | 7,500  |
| 11-nor-△9-THC-9 COOH               | 25     | 25-1110                | ,000   |
|                                    | 20     | THC20                  | 1      |
| Cannabinol                         | 10,000 | ∆8-THC                 | 7,500  |
| Cannabinoi<br>11-nor-∆8-THC-9 COOH | 10,000 | △8-THC<br>△9-THC       | 7,500  |
|                                    |        | Za-IHC                 | 1,500  |
| 11-nor-△9-THC-9 COOH               | 20     |                        |        |
|                                    |        | THC 600                |        |
| 11-nor-∆9-THC-9 COOH               | 600    | 11-nor-∆8-THC-9 COOH   | 400    |

|                                      | τN       | IL/TRA300                   |          |
|--------------------------------------|----------|-----------------------------|----------|
| n-Desmethyl-cis-tramadol             | 600      | o-Desmethyl-cis-tramadol    | 21,000   |
| Cis-tramadol                         | 300      | Phencyclidine               | >100,000 |
| Procyclidine                         | >100,000 | d,I-O-Desmethyl venlafaxine | >100,000 |
|                                      | τN       | IL/TRA100                   |          |
| n-Desmethyl-cis-tramadol             | 200      | o-Desmethyl-cis-tramadol    | 7,000    |
| Cis-tramadol                         | 100      | Phencyclidine               | 100,000  |
| Procyclidine                         | 100,000  | d,I-O-Desmethyl venlafaxine | 50,000   |
|                                      |          | ZOL50                       |          |
| Zolpidem Phenyl-4-carboxylic<br>acid | 50       | Ranitidine                  | 20,000   |
| Zolpidem hemitartrate                | 50       |                             |          |
| •                                    |          | ZOP50                       |          |
| Zopiclone                            | 50       |                             |          |

#### For ALC strip:

| Strong oxidize | rs |  | Ascorbic acid          |
|----------------|----|--|------------------------|
| Tannic acid    |    |  | Polyphenolic compounds |
| Mercaptans     |    |  | Uric acid              |
| Bilirubin      |    |  | Oxalic acid            |
|                |    |  |                        |

These compounds are not normally present in sufficient amount in urine to interfere with the test.

#### Effect of Urinary Specific Gravity

Fifteen (15) urine samples of normal, high, and low specific gravity ranges (1.000-1.037) were spiked with drugs at 50% below and 50% above cut-off levels respectively. The Drug Rapid Test was tested in duplicate using fifteen drug-free urine and spiked urine samples. The results demonstrate that varying ranges of urinary specific gravity do not affect the test results.

#### Effect of Urinary pH

The pH of an aliquoted negative urine pool was adjusted to a pH range of 5 to 9 in 1 pH unit increments and spiked with drugs at 50% below and 50% above cut-off levels. The spiked, pH-adjusted urine was tested with the Drug Rapid Test. The results demonstrate that varying ranges of pH do not interfere with the performance of the test.

#### Cross-Reactivity

A study was conducted to determine the cross-reactivity of the test with compounds in either drug-free urine or drug positive urine containing calibrators. The following compounds show no cross-reactivity when tested with the Drug Rapid Test at a concentration of 100µg/mL.

# Non Cross-Reacting Compounds

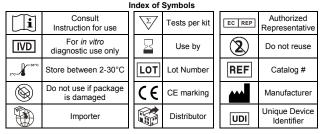
| Acetaminophen         | Dextromethorphan          | Isoxsuprine      | β-Phenylethylamine |
|-----------------------|---------------------------|------------------|--------------------|
| Acetone               | Diclofenac                | Kanamycin        | Procaine           |
| Acetophenetidin       | Dicyclomine               | Ketoprofen       | Promethazine       |
| Aspirin               | Diflunisal                | Labetalol        | Quinacrine         |
| Albumin               | Digoxin                   | Lidocaine        | Quinidine          |
| Amoxapine             | 4-Dimethylaminoantipyrine | Lindane          | Ranitidine         |
| Amoxicillin           | Diphenhydramine           | Loperamide       | Riboflavin         |
| Ampicillin            | 5,5-Diphenylhydantoin     | Meperidine       | Sodium chloride    |
| Ascorbic acid         | Disopyramide              | Methoxyphenamine | Sulfamethazine     |
| Aspartame             | Doxylamine                | Metoprolol       | Sulindac           |
| Atropine              | Dopamine                  | Nalidixic acid   | Temazepam          |
| Benzoic acid          | (1R, 2S) - (-)-Ephedrine  | (+)-Naproxen     | Tetracycline       |
| Bilirubin             | Erythromycin              | Nimesulide       | Tetrahydrozoline   |
| (+/-) Brompheniramine | Ethanol                   | Norethindrone    | Thebaine           |
| Benzocaine            | Etodolac                  | Noscapine        | Theophylline       |
| Buspirone             | Famprofazone              | Niacinamide      | Thiamine           |
| Caffeine              | Fenoprofen                | Norephedrine     | Thioridazine       |
| Chloramphenicol       | Fluoxetine Hydrochloride  | Orphenadrine     | Tolbutamide        |
| Chloroquine           | Furosemide                | Oxalic acid      | Trazodone          |
|                       |                           |                  |                    |

| (+/-)-Chlorpheniramine                  | Gentisic acid               | Oxolinic acid | Triamterene     |
|---|-----------------------------|---------------|-----------------|
| S- (+)-Chlorpheniramine<br>maleate salt | D (+) Glucose               | Oxymetazoline | Trifluoperazine |
| Chlorpromazine                          | Guaiacol Glyceryl Ether     | Papaverine    | Trimethoprim    |
| Chlorprothixene                         | Hemoglobin                  | Pemoline      | Trimipramine    |
| Cimetidine                              | Hydralazine                 | Penicillin-G  | Tryptamine      |
| Clomipramine                            | Hydrochlorothiazide         | Perphenazine  | Tyramine        |
| Clonidine                               | Hydroxyzine                 | Phenelzine    | Uric acid       |
| Creatine                                | Imipramine                  | Pheniramine   | Verapamil       |
| Cyclobenzaprine                         | Isoproterenol hydrochloride | Phenothiazine | Zomepirac       |

#### [BIBLIOGRAPHY]

- Clinical Drug Testing in Primary Care, Technical Assistance Publication Series 32, SAMHSA.
- 2. Federal Register. Vol. 80, No.94. May 15, 2015:28106.
- Forensic Science and Medicine: Drug of Abuse: Body fluid Testing Edited by R.C. Wong and H.Y.Tse, Humana Press Inc., Totowa, NJ, 2005.
- Glass, IB. The International Handbook of Addiction Behavior. Routledge Publishing, New York, NY. 1991; 216
- Stewart DJ, Inaba T, Lucassen M, Kalow W. Clin. Pharmacol. Ther. April 1979; 25 ed: 464, 264-8.
- 6. Ambre J. J. Anal. Toxicol. 1985; 9:241
- Baselt RC. Disposition of Toxic Drugs and Chemicals in Man. 6th Ed. Biomedical Publ., Foster City, CA 2002.
- Hardman JG, Limbird LE. Goodman and Gilman's: The Pharmacological Basis for Therapeutics. 10th Edition. McGraw Hill Medical Publishing, 2001; 208-209.
- Droenner P, Schmitt G, Aderjan R, et al. A kinetic model describing the pharmacokinetics of ethyl Glucuronide in humans[J]. Forensic Sci Int,2002,126 (1): 24-29.
- Bergström J, Helander A, Jones AW. Ethyl Glucuronide concentrations in two successive urinary voids from drinking drivers:relationship to creatinine content and blood and urine ethanol concentrations[J]. Forensic Sci Int,2003,33(1-2):86-94.
- 11. Wurst FM, Kempter C, Metzger J, et al. Ethyl Glucuronide: a marker of recent alcohol consumption with clinical and forensic implications[J]. Alcohol,2000,20(2):111-116.
- Wurst FM,Vogel R, Jachau K, et al. Ethyl Glucuronide discloses recent covert alcohol use not detected by standard testing in forensic psychiatric inpatients[J]. Alcohol Clin Exp Res,2003,27(3): 471-476.
- Hølseth G, Bernard JP, Karinen R, et al. A pharmacokinetic study of ethyl Glucuronide in blood and urine: applications to forensic toxicology[J]. Forensic Sci Int, 2007, 172(2-3): 119-124
- Hawks RL, CN Chiang. Urine Testing for Drugs of Abuse. National Institute for Drug Abuse (NIDA), Research Monograph 73, 1986.
- 15. Tietz NW. Textbook of Clinical Chemistry. W.B. Saunders Company. 1986; 1735.
- Stewart DJ, Inaba T, Lucassen M, Kalow W. Clin. Pharmacol. Ther. April 1979; 25 ed: 464, 264-8.
- 17. Ambre J. J. Anal. Toxicol.1985; 9:241.
- Winger, Gail, A Handbook of Drug and Alcohol Abuse, Third Edition, Oxford Press, 1992, page 146.
- Murray, Brittany L., Christine M. Murphy, and Michael C. Beuhler. "Death Following Recreational Use of Designer Drug "Bath Salts" Containing 3.4-Methylenedioxypyrovalerone (MDPV)." J. Med. Toxicol 2012.8: 69–75.
- Americal Academy of Child and Adolescent Psychiatry official Action. Practice parameter for the use of stimiulant madications in the treatment of children, adolescents and adults[J].J Am Acad Child Adolesc Psychiatry, 2002, 42(Suppl 2):26-49.
- Swanson J, Gupta S, Lam A, et al. Development of a new once-a-day formulation of methylphenidate for the treatment of attention-deficit/hyperactivity disorder [J]. Arch Gen Psychiatry, 2003, 60: 204–211.
- Josefsson M, Rydberg I. Determination of methylphenidate and ritalinic acid in blood, plasma and oral fluid from volunteers and adults using protein precipitation and liquid chromatography tandem mass spectrometry—a method applied on clinical and forensic investigations [J]. J Pharm Biomed Anal, 2011,55: 1050–1059.

- Glass, IB. The International Handbook of Addiction Behavior. Routledge Publishing, New York, NY. 1991; 216
- 24. Robert DeCresce. Drug Testing in the workplace, 1989 page 114
- J.H. Lewis and J.H. Vine. "A Simple and Rapid Method for the Identification of Zolpidem Carboxylic Acid in Urine." Journal of Analytical Toxicology, Vol. 31, May 2007.
- SALVAP, COSTAJ. Clinical pharmacokinetics and pharmacodynamics of zolpidem.Therapeutic implications[ J] .ClinPharmacokinet, 1995, 29(3): 142 -153.
- Libong D, bouchonnet S, Ricordel I. A Selective and Sensitive Method for Quantitation of Lysergic Acid Diethylamide (LSD) in Whole Blood by Gas Chromatography-Ion Trap Tandem Mass Spectrometry[J]. Journal of Analytical Toxicology, 2003, (27): 24-29.
- 28. Hofmann A. LSD-my problem child[M ]. Ben Lomond: MAPS, 2005: 215-232.
- Burnley BT, Georgé S. The Development and Application of a Gas Chromatography-Mass Spectrometric (GC/MS) Assay to Determine the Presence of 2-oxo-3-hydroxy-LSD in urine[J]. Journal of Analytical Toxicology, 2003, (27): 249-252.





Hangzhou Biotest Biotech Co., Ltd. 17#, Futai Road, Zhongtai Street, Yuhang District, Hangzhou, P. R. China

# CE

#### For GAB Rapid Test and ACL Rapid Test:

EC REP

Riomavix S.L. Calle de Almansa 55, 1D, Madrid 28039 Spain

# For other Drug Rapid Test:



Shanghai International Holding Corp. GmbH (Europe) Eiffestrasse 80, 20537 Hamburg, Germany Importer and distributor: Noviral SwedenAB Imported by: Noviral SwedenAB



Contact information: Noviral Sweden AB +46 (0)10-880 08 47 Noviral Sweden AB Humlegårdsgatan 4, 3tr 114 46 Stockholm, Sweden

| Number:         | RP5625600  |
|-----------------|------------|
| Effective date: | 2025-01-07 |