

# **Multi-Drug Urine Test Compact Cup** Catalogue No. See Box label

OTEST™ Multi-Drug Urine Test Compact Cup are competitive binding, lateral flow immunochromatographic assays for qualitative and simultaneous detection of 6-Monoacetylmorphine, Amphetamine, Secobarbita Buprenorphine, Oxazepam, Cocaine, Cotinine, 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP), Ethyl Glucuronide, Fentanyl, Synthetic Cannabinoids, Ketamine, Kratom, Methylenedioxymethamphetamine, Methamphetamine, Morphine, Methadone, Opiate, Oxycodone, Phencyclidine, Propoxyphene, Nortriptyline Cannabinoids. Tramadol and Alcohol in human urine with below cutoff concentrations and approximate

Drug (Identifier)	Calibrator	Cut-off Level	Minimum Detection Time	Maximum Detection Time
6-Monoacetylmorphine (6-MAM)	6-Monoacetylmorphine	10 ng/mL	1-2 hours	24 hours
Amphetamine (AMP300)	d-Amphetamine	300 ng/mL	2-7 hours	1-2 days
Amphetamine (AMP500)	d-Amphetamine	500 ng/mL	2-7 hours	1-2 days
Amphetamine (AMP1000)	d-Amphetamine	1000 ng/mL	2-7 hours	1-2 days
Secobarbital (BAR)	Secobarbital	300 ng/mL	2-4 hours	1-4 days
Buprenorphine (BUP)	Buprenorphine	10 ng/mL	4 hours	1-3 days
Oxazepam (BZO200)	Oxazepam	200 ng/mL	2-7 hours	1-2 days
Oxazepam (BZO300)	Oxazepam	300 ng/mL	2-7 hours	1-2 days
Cocaine (COC100)	Benzoylecgonine	100 ng/mL	1-4 hours	2-4 days
Cocaine (COC150)	Benzoylecgonine	150 ng/mL	1-4 hours	2-4 days
Cocaine (COC300)	Benzoylecgonine	300 ng/mL	1-4 hours	2-4 days
Cotinine (COT)	Cotinine	200 ng/mL	2-8 hours	1-7 days
EDDP100	2-ethylidene-1,5- dimethyl-3,3- diphenylpyrrolidine	100 ng/mL	3-8 hours	1-3 days
EDDP300	2-ethylidene-1,5- dimethyl-3,3- diphenylpyrrolidine	300 ng/mL	3-8 hours	1-3 days
Ethyl Glucuronide (EtG300)	Ethyl Glucuronide	300 ng/mL	1-2 hours	Up to 3+ days
Ethyl Glucuronide (EtG500)	Ethyl Glucuronide	500 ng/mL	1-2 hours	Up to 3+ days
Fentanyl (FTY20)	Norfentanyl	20 ng/mL	1-4 hours	1-3 days
Fentanyl (FTY100)	Fentanyl	100 ng/mL	1-4 hours	1-2 days
Synthetic Cannabinoid (K2)	JWH-018 Pentanoic Acid JWH-073 Butanoic Acid	50 ng/mL 50 ng/mL	8-12 hours	Up to 5+ days
Ketamine (KET 300)	Ketamine	300 ng/mL	2-4 hours	2-3 days
Ketamine (KET 1000)	Ketamine	1000 ng/mL	2-4 hours	2-3 days
Kratom (KRA)	Mitragynine	300 ng/mL	7 hours	3 days
Methylenedioxymethamp hetamine (MDMA)	3,4- Methylenedioxymethamp hetamine (MDMA)	500 ng/mL	2-7 hours	2-4 days
Methamphetamine (MET300/mAMP300)	D(+)-Methamphetamine	300 ng/mL	2-7 hours	2-4 days
Methamphetamine (MET500/mAMP500)	D(+)-Methamphetamine	500 ng/mL	2-7 hours	2-4 days
Methamphetamine (MET1000/mAMP1000)	D(+)-Methamphetamine	1000 ng/mL	2-7 hours	2-4 days
Morphine (MOP/OPI100)	Morphine	100 ng/mL	2 hours	2-3 days
Morphine (MOP/OPI300)	Morphine	300 ng/mL	2 hours	2-3 days
Methadone (MTD200)	Methadone	200 ng/mL	3-8 hours	1-3 days
Methadone (MTD300)	Methadone	300 ng/mL	3-8 hours	1-3 days
Opiate (OPI)	Morphine	2000 ng/mL	2 hours	2-3 days
Oxycodone (OXY)	Oxycodone	100 ng/mL	4 hours	1-3 days
Phencyclidine (PCP)	Phencyclidine	25 ng/mL	4-6 hours	7-14 days
Propoxyphene (PPX)	Propoxyphene	300 ng/mL	2 hours	2-3 days
Nortriptyline (TCA)	Nortriptyline	1000 ng/mL	8-12 hours	2-7 days
Cannabinoids (THC25)	11-nor-Δ9-THC-9-COOH	25 ng/mL	2 hours	Up to 5+ days
Cannabinoids (THC40)	11-nor-Δ9-THC-9-COOH	40 ng/mL	2 hours	Up to 5+ days
Cannabinoids (THC50)	11-nor-Δ9-THC-9-COOH	50 ng/mL	2 hours	Up to 5+ days
Tramadol (TRA 100)	Tramadol	100 ng/mL	8-12 hours	3-7 days
Tramadol (TRA 200)	Tramadol Tramadol	200 ng/mL	8-12 hours 8-12 hours	3-7 days
Tramadol (TRA 1000) Alcohol (ETOH)	Alcohol	1000 ng/mL 0.04 g/dL	8-12 hours -	3-7 days -

Configurations of the QTEST<sup>™</sup> Multi-Drug Urine Test Compact Cup can consist of any combination of the above listed drug analytes. It is intended for forensic use only.

It is not intended to distinguish between prescription use or abuse of these drugs. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly in evaluating a preliminary

The tests provide only preliminary results. To obtain a confirmed analytical result, a more specific alternate chemical method must be used. Chromatography/Mass Spectrometry (GC/MS) or Liquid Chromatography/Tandem Mass Spectrometry (LC/MS-MS) is the recommended confirmatory method.

## WARNINGS AND PRECAUTIONS

- 1 The test kit is for external use only.
- 2. Discard after first use. The test kit cannot be used more than once
- 3. Do not use the test kit beyond expiration date
- Do not use the test kit if the pouch is punctured or not well sealed.
- 5. Keep out of the reach of children

## CONTENT OF THE KIT

- 1. 25 QTEST<sup>TM</sup> test devices, each in one pouch with two desiccants. The desiccants are for storage purposes only and are not used in the test procedure.
- One (1) Package Insert
- 5 Adulteration Color Comparison Chart (If equipped). 25 Security Seals

Timer or Clock

5. 25 Pieces of Gloves

# MATERIAL REQUIRED BUT NOT PROVIDED

### STORAGE AND STABILITY

- Store at 4°C-30°C (39°F-86°F) in the sealed pouch up to the expiration date
- Keep away from direct sunlight, moisture and heat.
  - DO NOT FREEZE.

### SPECIMEN COLLECTION

### WHEN TO COLLECT LIRINE FOR THE TEST?

Collect urine specimen after minimum detection time following suspected drug use. Urine collection time is very important in detecting any drugs of abuse. Each drug is cleared by the body and is detected in the urine at different times and rates. Please refer to the minimum or maximum detection time of each drug in this

### HOW TO COLLECT LIBINE?

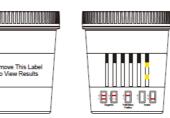
- Remove the test cup from the foil pouch by tearing at the notch. Use it as soon as possible. Instruct the donor to remove the test cup lid and void directly into the test cup until reach the Minimum Urine Level mark (approximately 25 mL). It is acceptable to collect extra volume of urine. If insufficient specimen has been collected, instruct the donor to provide urine specimen again with another new test cup. Wipe off any splashes or spills that may be on the outside of the cup. It is recommended to wear gloves when handling the test cup with urine specimen
- Observe the temperature strip affixed on the test cup between 2 to 4 minutes after urine is voided into the cup. The temperature between 32°C to 38°C (90°F-100°F) indicates the fresh uncontaminated specimen. If the temperature is out of this range, instruct the donor to provide urine specimen again with another new

### TEST PROCEDURE

Test should be performed at room temperature 18°C-30°C (65°F-86°F).

- 1. After the urine has been collected properly, tighten the lid and place the test cup on a flat surface. . Peel off the label from right to left.
- 3. For the adulteration strip(s) if equipped, read results immediately, or at 30 seconds, or at 45 seconds and compare each adulterant pad to verify pad color is within acceptable range according to the Adulteration Color Comparison Chart. If the results indicate adulteration, do not read the drug test results. Instruct the donor to provide urine specimen again with another new test cup.
- 4. For the alcohol test, read the alcohol test result at 2 minutes. Do not read results after 2 minutes
- 5. For the drug tests, read the drug test results at 5 minutes. Do not read results after 5 minutes.







## READING THE RESULTS

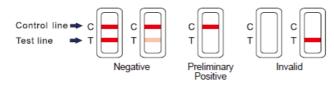
## DRUG TEST:

A colored band is visible in each Control Region (C) and the appropriate Test Region (T). It indicates that the concentration of the corresponding drug of that specific test zone is zero or below the detection limit of the

## Preliminary Positive (+)

A colored band is visible in each Control Region (C). No colored band appears in the appropriate Test Region (T). It indicates a preliminary positive result for the corresponding drug of that specific test zone.

If a colored band is not visible in each of the Control Region (C) or a colored band is only visible in the Test Region (T), the test is invalid. Another test should be run to re-evaluate the specimen. If the new test still vides an invalid result, please contact the distributor from whom you purchased the product. When calling, be sure to provide the lot number of the test.



## Note: There is no meaning attributed to line color intensity or width

A preliminary positive test result does not always mean a person took drugs and a negative test result does not always mean a person did not take drugs. There could be a number of factors that affect the reliability of

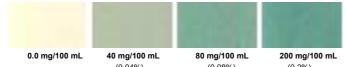
## ALCOHOL TEST:

Almost no color change on test pad in comparison with the provided colored chart. The negative result indicates that the concentration of ethyl alcohol in urine is less than 0.04 g/dL

# Preliminary Positive (+)

A distinct color developed all over the pad. The positive result indicates that the concentration of ethyl alcohol in urine is 0.04% or higher.

# Approximate Alcohol Concentration



The test should be considered invalid if only the edge of the reaction pad turned color that might be ascribed to insufficient sampling. Another test should be run to re-evaluate the specimen. If test still fails, please contact

### What Is the False Positive Test?

The definition of the false positive test would be an instance where a substance is identified incorrectly by the QTEST™ Multi-Drug Urine Test Compact Cup. The most common causes of the false positive test are cross reactants. Certain foods and medicines, diet plan drugs and nutritional supplements may cause the false

### What Is the False Negative Test?

The definition of the false negative test is that the initial drug is present but isn't detected by the QTEST™ Multi-Drug Urine Test Compact Cup. If the specimen is diluted, or the specimen is adulterated that may cause

If suspect someone is taking drugs but get the negative test results, please test again at another time.

### TEST LIMITATIONS

- 1. This test kit has been developed for testing urine specimen only. No other fluids have been evaluated. DO NOT use it to test anything other than urine.
- 2. Adulterated urine specimen may produce false results. Strong oxidizing agents such as bleach (hypochlorite) can oxidize drug analytes. If a specimen is suspected of being adulterated, obtain a new
- 3. It is possible that technical or procedural errors, as well as other interfering substances in the urine specimen may cause false results.
- 4. This test is a qualitative screening assay. It is not designed to determine the quantitative concentration of drugs or the level of intoxication

### SUMMARY

Heroin is rapidly metabolized in the body. The half-life in blood is only 3-9 minutes. It is degraded by esterase in the body to 6-monoacetylmorphine (hereinafter abbreviated as 6-MAM) and the molecular formula is C21H23NO5. 6-MAM is deacetylated in the body to form morphine, and morphine cannot be acetylated to form 6-MAM in vivo. 6-MAM in the human body is only derived from the metabolism of heroin. Therefore, the US Department of Health and Human Services (DHHS) recommended 6-monoacetylmorphine as a specific test for heroin abuse.

### Amphetamine (AMP)

Amphetamine and the structurally related "designer" drugs are sympathomimetic amines whose biological effects include potent central nervous system (CNS) stimulation, anorectic, hyperthemic, and cardiovasc properties. They are usually taken orally, intravenously, or by smoking. Amphetamines are readily absorbed estinal tract and are then either deactivated by the liver or excreted unchanged in the urine with a half-life of about 12 hours. It can be detected in the urine for 1 to 2 days after use. Amphetamine is metabolized to deaminated (hippuric and benzoic acids) and hydroxylated metabolites. Methamphetamine is partially metabolized to amphetamine and its major active metabolite. Amphetamines increase the heart rate and blood pressure, and suppress the appetite. Some studies indicate that heavy abuse may result in permanent damage to certain essential nerve structural in the brain.

Barbiturates are a class of central pervous system depressions. They have a wide range of half-life of 2 to 40. hours and can be detected in the urine for 1 to 4 days after use. Phenobarbital is a long acting barbiturate derivative that has been used as a daytime sedative and very extensively as an anticonvulsant. Pentobarbital and secobarbital are two examples of a short acting barbiturate sedative. Abuse of barbiturates can lead not only to impaired motor coordination and mental disorder, but also to respiratory collapse, coma and even death. Barbiturates are taken orally, rectally, or by intravenous and intramuscular injections. Short-acting barbiturates will generally be excreted in urine as metabolites, while the long-acting barbiturates will primarily appear

## Buprenorphine (BUP)

Buprenorphine is a potent analgesic often used in the treatment of opioid addiction. The drug is sold under the Trade names Subutex™, Buprenex™, Temgesic™ and Suboxone™; all of which contain Buprenorphine HCl alone or in combination with Naloxone HCl. Therapeutically, Buprenorphine is used as a substitution treatment for opioid addicts. A 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. The isma half-life of Buprenorphine is 2-4 hours. While complete elimination of a single-dose of the drug can take as long as 6 days, the detection window for the parent drug in urine is thought to be approximately 3 days.

Benzodiazepines are the most widely used anxiolytic drugs. They are used extensively as anti-anxiety agents, hypnotics, muscle relaxants and anti-convulsants. They are taken orally or sometimes by injection and have a wide range of half-life from 2 to 40 hours. They can generally be detected for 1 to 2 days after Benzodiazepines use. Benzodiazepines are metabolized in the liver. Some Benzodiazepines and their metabolites are excreted in the urine. Their use can result in drowsiness and/or confusion. Benzodiazepines potentiate alcohol and other CNS depressants. Psychological and physical dependence on benzodiazepines can develop if high doses of the drug are given over a prolonged period.

Cocaine derived from leaves of coca plant, is a potent central nervous system stimulant and a local anesthetic Among the psychological effects induced by using cocaine are euphoria, confidence and a sense of increased energy, accompanied by increased heart rate, dilation of the pupils, fever, tremors and sweating. Cocaine is excreted in urine primarily as benzoylecgonine in a short period of time.

## Cotinine (COT)

Cotinine is an alkaloid found in tobacco and is also a major metabolite of Nicotine, which produces stimulation of the autonomic ganglia and central nervous system when in humans. Nicotine is found in tobacco products such as cigarettes, tobacco chew, and nicotine patches or gums. It is an addictive substance and is poisonous in a large amount. In addition to addiction, some of the other substances within tobacco products, such as carbon monoxide or tar, are dangerous to the body and can lead to medical conditions such as emphysema, lung cancer, and heart disease. 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%. While Cotinine is thought to be an inactive metabolite, its eliminatio profile is more stable than that of Nicotine which is largely urine PH dependent. Cotinine is stable in body fluids and has a relatively long half-life of approximately 17 hours, and is typically detectable for several days (up to one week) after the use of tobacco, therefore the detection of Cotinine is less dependent on the time of sampling

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.

EDDP (2-ethylidene -1, 5-dimethyl-3, 3-diphenylpyrrolidine) is the primary metabolite of methadone. Methadone is a synthetic analgesic drug that is originally used in the treatment of narcotic addicts. The detection of EDDP is more beneficial than traditional methadone screening since EDDP exists only in urine from individuals that ingested methadone. The tampering of specimens by spiking the urine with meth can be prevented. Secondly, renal clearance of EDDP is not affected by urinary pH, therefore the EDDP test

### Ethyl Glucuronide (EtG) Ethyl Glucuronide is a direct metabolite of alcohol. Presence in urine may be used to detect recent alcohol

intake, even after alcohol is no longer measurable. Traditional laboratory methods detect the actual alcohol in the body, which reflects current intake within the past few hours (depending on how much was consumed). The presence of EtG in urine is a definitive indicator that it can be detected in the urine for 3 to 4 days after drinking alcohol, even alcohol is eliminated from the body. Therefore, EtG is a more accurate indicator of the ecent intake of alcohol than measuring for the presence of alcohol itself. The EtG test can aid in the diagnosis of drunk driving and alcoholism, which has important significance in the forensic identification and medical Fentanyl (FTY)

Fentanyl is a potent, synthetic narcotic analgesic with a rapid onset and short duration of action. It was first synthesized by Janssen Pharmaceutica (Belgium) in the late 1950s, and It is approximately 100 times more potent than morphine. Fentanyl is a strong agonist at the  $\mu$ -opioid receptors. Historically it has been used to treat breakthrough pain and is commonly used in pre-procedures as a pain reliever as well as an anesthetic in combination with a benzodiazepine. Fentanyl is frequently given intrathecally as part of spinal anesthesia or epidurally for epidural anesthesia and analgesia.

### Synthetic cannabinoids (K2)

Synthetic cannabinoids are psychoactive designer drugs derived of natural herbs sprayed with synthetic nicals that, when consumed, allegedly mimic the effects of cannabis, It is best known by the brand names  $\mathsf{K2}$  and  $\mathsf{Spice}.$  Synthetic cannabinoids act on the body in a similar way to cannabinoids naturally found in cannabis, such as THC. Although synthetic cannabinoids do not produce positive results in drug tests for cannabis, it is possible to detect its metabolites in human urine.

Ketamine is a sort of medical stupefacient. The principal metabolites are non-ketamine. Smoking, mainlining snuffing, and dissolving into drink or alcohol are the primary method of use of ketamine. Ketamine is usually administered in combination with heroin, marijuana etc. for the relief of moderate to severe pain. Overdose may cause central nervous system effects, do harm to liver and kidney, and even cause death. Ketamine is habolized in the liver. Over 70% ketamine metabolites and only 5% original drugs are excreted in the urine. They can generally be detected for 2 to 4 hours after ketamine use

Kratom (Mitragyna speciosa) is a plant indigenous to Thailand and Southeast Asia. Kratom leaves produce complex stimulant and opioid-like analgesic effects. In Asia, it is often used to stave off fatigue and to manage pain, diarrhea, cough, and opioid withdrawal. Recently, kratom has become widely available in the United States and Europe by means of smoke shops and the Internet. The clinical manifestations of kratom are not well defined and studies are limited, but its safety profile has become a national and international concern. primarily due to excessive consumption being linked to increase in hospital visits for hepatic injury, seizures, coma, and death. The main active ingredients include Mitragynine and 7-Hydroxymitrgynine, which can be detected in urine up to 72 hrs (1-3).

### Methylenedioxymethamphetamine (MDMA)

methamphetamine (ecstasy) is a designer drug first synthesized in 1914 by a German drug company for the treatment of obesity. 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.

Methamphetamine is a potent sympathomimetic agent with therapeutic applications. Acute higher doses lead to enhanced stimulation of the central nervous system and induce euphoria, alertness, and a sense of increased energy and power. More acute responses produce anxiety, paranoia, psychotic behavior, and cardiac dysrhythmias. The pattern of psychosis which may appear at half-life of about 15 hours and is excreted in urine as amphetamine and oxidized as deaminated and hydroxylated derivatives. However, 40% of methamphetamine is excreted unchanged. Thus the presence of the parent compound in the urine indicates

## Morphine (MOP/OPI300)

The opiates such as heroin, morphine, and codeine are derived from the resin of opium poppy. The principal metabolites of opiates are morphine, morphine-3-glucuronide normorphine and codeine with a half-life of about 3 hours. Heroin is quickly metabolized to morphine. Thus, morphine and morphine glucuronide might both be found in the urine of a person who has taken only heroin. The body also changes codeine to morphine. Thus, the presence of morphine (or the metabolite, morphine glucuronide) in the urine indicates heroin, morphine and/or codeine use. The test for Morphine (MOP/OPI300) of the QTEST<sup>TM</sup> Multi-Drug Urine Test Compact Cup yields a positive result when the morphine in urine exceeds 300 ng/mL.

Methadone is a synthetic analgesic drug that is originally used in the treatment of narcotic addicts. Among the psychological effects induced by using methadone are analgesia, sedation and respiratory depression Overdose of methadone may cause coma or even death. It is administered orally or intravenously and is metabolized in the liver and excreted in urine as methadone, EDDP, EMDA and methadol. The kidneys are a major route of methadone excretion. Methadone has a biological half-life of 15 to 60 hours.

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 central nervous system. 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. The test for Morphine 2000 (OPI) of the QTEST<sup>™</sup> Multi-Drug Urine Test Compact Cup yields a positive result when the morphine in urine exceeds 2000 ng/mL

Oxycodone is known as Oxycontin and Roxicodone. It is an ingredient of Percodan, Percocet, Roxicet and Tylox. Oxycodone is a semi-synthetic opiates derived from opium. Like other opiates, Oxycodone is characterized by it analgesic properties, and the tendency for users to form a physical dependency and develop tolerance with extended use. Oxycodone is usually administered in combination with non-opiate analgesics such as acetaminophen and salicylates for the relief of moderate to severe pain. Oxycodone is a central nervous system depressant that may cause drowsiness, dizziness, lethargy, weakness and confusion. Toxicity n an overdose of Oxycodone can lead to stupor, coma, muscle flaccidity, severe respiratory depression, hypotension, and cardiac arrest.

Oxycodone is metabolized by N- and O-demethylation. One of the metabolites, oxymorphone, is a potent otic analgesic, while the other, noroxycodone, is relatively inactive. Between 33 to 61% of a single dose of Oxycodone is excreted in a 24 hour urine collection and consists of 13-19% free Oxycodone, 7-29% glucuronide conjugated Oxycodone, 13-14% glucuronide conjugated oxymorp hone and an unknown amount of noroxycodone. The detection time window of Oxycodone is 1-3 days following use.

Phencyclidine is an arylcyclohexylamine that was originally used as an anesthetic agent and a veterinary ranquilizer. Phencyclidine can produce hallucinations, lethargy, disorientation, loss of coordination, trance-like ecstatic states, a sense of euphoria and visual distortions. It has many street names, such as "angel dust" and crystal cyclone," etc. phencyclidine can be administered orally, by nasal ingestion, smoking, or by intravenous njection. It is metabolized in the liver and excreted through the kidneys in urine in unchanged form and oxidized

metabolites with a half-life of about 12 hours. Suction and urinary acidification in the treatment of overdose typically reduces its half-life from three days to one day.

### Propoxyphene (PPX)

Propoxyphene, a synthetic opiate agonist, is structurally similar to methadone. Propoxyphene is a narcotic analgesic used to relieve mild to moderate pain. The principal metabolites are nordextropropoxyphene. The combination usage of propoxyphene, aspirin, acetaminophen or other sedatives can lead cooperative interaction. Abuse of propoxyphene can lead nausea, vomit, astriction, illusion, hallucination, heart poisoning, lung dropsy and even death. Propoxyphene is metabolized in the liver and excreted in urine as nordextropropoxyphene. Thus the presence of the propoxyphene or its metabolites in the urine indicates propoxyphene use

TCA (Tricvclic Antidepressants) are commonly used for the treatment of depressive disorders. TCA overdoses can result in profound central nervous system 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.

### Cannabinoids (THC)

Cannabinoids are hallucinogenic agents derived from the flowering portion of the hemp plant. The active ingredients in Cannabinoids, THC & Cannabinol can be metabolized and excreted as 11-nor-Δ9 tetrahydrocannabinol-9-carboxylic acid with a half-life of 24 hours. They can be detected for 1 to 5 days after use. Smoking is the primary method of use of Cannabinoids/cannabis. Higher doses used by abusers produce central nervous system effects, altered mood and sensory perceptions, loss of coordination, impaired shortterm memory, anxiety, paranoia, depression, confusion, hallucinations and increased heart rate. A tolerance to the cardiac and psychotropic effects can occur, and withdrawal syndrome produces restlessness, insomnia anorexia and nausea.

### Tramadol (TRA)

Tramadol [2-(dimethylaminomethyl)-1-(3-methoxyphenyl) cyclohexanoll is used similarly to codeine, to treat moderate to moderately severe pain. It is a synthetic analog of the phenanthrene alkaloid codeine and, as such, is an opioid and also a prodrug (codeine is metabolized to morphine, tramadol is converted to Odesmethyltramadol). Tramadol and its metabolites are excreted primarily in the urine with observed plasma half-lives of 6.3 and 7.4 hours for tramadol and O-desmethyltramadol (denoted M1), respectively. Approximately 30% of the dose is excreted in the urine as unchanged drug, whereas 60% of the dose is

### Alcohol (ETOH)

Alcohol Test is intended for use to detect the presence of alcohol in urine greater than 0.04%. 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% (0.02 g/dL) as the cut-off level at which an individual is considered positive for the presence of alcohol. Since the urine alcohol concentration is normally higher than that in saliva and blood, the cutoff concentration for alcohol in urine was set at 0.04%. Normally, it will take at least 30 minutes for the alcohol to

The QTEST<sup>TM</sup> Multi-Drug Urine Test Compact Cup is a competitive immunoassay that is used to screen for the presence of drugs of abuse in urine. It is a chromatographic absorbent device in which drugs in a sample competitively combine to a limited number of drug monoclonal antibody (mouse) conjugate binding sites.

When the absorbent end is immersed into urine specimen, the urine is absorbed into the device by capillary action, mixes with the respective drug monoclonal antibody conjugate, and flows across the pre-coa membrane. When sample drug levels are zero or below the target cutoff (the detection sensitivity of the test), respective drug monoclonal antibody conjugate binds to the respective drug-protein conjugate immobilized in the Test Region (T) of the device. This produces a colored Test line that, regardless of its intensity, indicates a

When sample drug levels are at or above the target cutoff, the free drug in the sample binds to the respective drug monoclonal antibody conjugate preventing the respective drug monoclonal antibody conjugate from binding to the respective drug-protein conjugate immobilized in the Test Region (T) of the device. This prevents the development of a distinct colored band in the test region, indicating a potentially positive result.

To serve as a procedure control, a colored line will appear at the Control Region (C), where the goat anti mouse IgG polyclonal antibody immobilized in, if the test has been performed properly.

## QUALITY CONTROL

Users should follow the appropriate federal, state, and local guidelines concerning the frequency of assaying external quality control materials. Even though there is an internal procedural control line in the test device in the Control Region (C), the use of external controls is strongly recommended as good laboratory testing practice to confirm the test procedure and to verify proper test performance. Positive and negative controls should give the expected results. When testing the positive and negative controls, the same assay procedure should be adopted. External Control (positive and negative) should be run with each new lot of test received, each new shipment, each new operator and monthly to determine that tests are working properly.

## PERFORMANCE CHARACTERISTICS

## **ADULTERATION CONTROL:**

## Expected Results

Creatinine (CR): Creatinine reacts with a creatinine indicator in an alkaline medium to form a purplish-brown color complex if creatinine in the urine is present at the normal level. The color intensity is directly proportional to the concentration of creatinine. A urine specimen with creatinine concentration of less than 20 mg/dL produces a very light, or no pad color change, which indicates adulteration in the form of specimen dilution

Glutaraldehyde (GL): Glutaraldehyde is not a natural component of human urine and it should not be present in normal urine. The presence of glutaraldehyde in the urine specimen indicates the possibility of adulteration However, false positive may result when ketone bodies are present in urine. Ketone bodies may appear in urine when a person is in ketoacidosis starvation or other metabolic abno

Nitrite (NI): Although nitrite is not a normal component of urine, nitrite levels of up to 3.6 mg/dL may be found in some urine specimens due to urinary tract infections, bacterial contamination or improper storage. In this adulteration control, nitrite level above 15 mg/dL is considered abnormal.

Oxidants/Bleach (OX): The presence of Bleach and other oxidizing reagents in the urine is indicative of adulteration since oxidizing reagents are not normal constituents of urine. Other oxidizing reagents include Hydrogen Peroxide, Ferricyanide, Persulfate, Pyridinium Chlorochromate etc.

pH (PH): Normal urine pH ranges from 4.5 to 8.0. Values below pH 4.0 or above pH 9.0 are indicative of

Specific Gravity (S.G.): The specific gravity test is based on the pKa change of certain pretreated polyelectrolytes in relation to the ionic concentration. The pad colors will change from dark blue to blue-green in urine of low ionic concentration to green and vellow-green in urine of higher ionic concentration. A urine specific gravity below 1.003 or above 1.025 is considered abnormal

DRUG TEST:

### Accuracy

3280 (eighty of each drug) clinical urine specimens were analyzed by GC-MS and by each corresponding drug

est. Èa	ach test v	was r	ead by t	hree viewe	rs. Samples	were divided by	concentratio	by each corresponding drug n into five categories: Drug		Viewer B	-	10
ree, L as follo		Half	the Cuto	off, Near C	utoff Negative	e, Near Cutoff F	ositive, and I	High Positive. Results were		Viewer C	+	0 10
Drug	Result		Drug	Less	Near	Near Cutoff	High	% Agreement with GC/MS	AMP (20)	<del>√iewer</del>	-	0
Test	Kesuit		Free	than	Cutoff	Positive	Positive	or LC/MS	(500)	A Viewer	+	10 \ 0
				Half	Negative	(Between the	(Greater	(95%CI)	(500)	B	-	10
				the Cutoff	(Between 50%	cutoff and 50% above	than 50% above the			Viewer	+	0
					below the	the cutoff)	cutoff)			С	-	10
					cutoff and				FTY (100)	Viewer A	+	8
-MAM	Viewer	+	0	0	the cutoff)	17	21	95% (83.5% - 98.6%)	(100)	Viewer	+	0
	A	-	10	15	13	2	0	95% (83.5% - 98.6%)	Viouer F	В	-	8
	Viewer	+	0	0	1	18	21	97.5% (87.1% - 99.6%)		Viewer	+	8
	Viewer	+	10	15 0	14 1	1 17	0 21	97.5% (87.1% - 99.6%) 95% (83.5% - 98.6%)	K2	Viewer	+	0
	C	-	10	15	14	2	0	97.5% (87.1% - 99.6%)	+ -	Α	-	10
AMP	Viewer	+	0	0	2	29	11	100% (91.2% - 100%)	]	Viewer	+	0
300)	Α	-	10	17	11	0	0	95% (83.5% - 98.6%)	4	B Viewer	+	10 0
	Viewer B	+	10	0 17	1 12	29 0	11 0	100% (91.2% - 100%) 97.5% (87.1% - 99.6%)	-	C	-	10
	Viewer	+	0	0	1	29	11	100% (91.2% - 100%)	KET	Viewer	+	0
	С	-	10	17	12	0	0	97.5% (87.1% - 99.6%)	(300)	Α	-	10
MP 500)	Viewer A	+	0	0	2	30	10	100% (91.2% - 100%)	-	Viewer B	+	0 10
500)	Viewer	+	10	17 0	11 1	30	10	95% (83.5% - 98.6%) 100% (91.2% - 100%)	<del> </del>	Viewer	+	0
	В	-	10	17	12	0	0	97.5% (87.1% - 99.6%)	┪	С	-	10
	Viewer	+	0	0	2	30	10	100% (91.2% - 100%)	KET (1000)	Viewer	+	0
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AMP 1000)	Viewer A	+	10	18	11	0	0	100% (84.5% - 100%) 97.5% (82% - 100%)	1	B	-	10
	Viewer	+	0	0	2	11	29	100% (84.5% -100%)	]	Viewer	+	0
	В	-	10	18	10	0	0	95% (79.5% - 100%)	VD:	С	-	10
	Viewer	+	0	18	2	11	29	100% (84.5% -100%)	KRA	Viewer A	+	0 10
BAR	C Viewer	+	10	18 0	10 2	0 20	20	95% (79.5% - 100%) 100% (84.5% -100%)	11	Viewer	+	0
	A	-	10	10	18	0	0	95% (79.5% - 100%)	]	В	-	10
	Viewer	+	0	0	2	20	20	100% (84.5% -100%)	]	Viewer	+	0
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	Α	-	10	18	11	0	0	97.5% (82% - 100%)	]	В	-	10
	Viewer B	+	0	0	1	16	24	100% (84.5% - 100%)	4	Viewer C	+	0 10
	Viewer	+	10	18 0	11 2	0 16	0 24	97.5% (82% - 100%) 100% (84.5% - 100%)	MET	Viewer	+	0
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	Viewer	+	0	0	2	20	20	100% (84.5% -100%)	MET	Viewer	+	0
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,	Viewer	+	0	0	2	27	13	100% (91.2% - 100%)	11	Viewer	+	0
	В	-	10	15	13	0	0	95% (83.5% - 98.6%)		С	-	10
	Viewer C	+	0	0	1	27	13	100% (91.2% -100%)	PI100	Viewer A	+	10
ОС	Viewer	+	10	15 0	14 2	30	10	97.5% (87.1% - 99.6%) 100% (91.2% - 100%)	1	Viewer	+	0
150)	A	-	10	18	10	0	0	95% (83.5% - 98.6%)	]	В	-	10
	Viewer	+	0	0	1	30	10	100% (91.2% - 100%)	4	Viewer C	+	0
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	C	-	10	18	10	0	0	95% (83.5% - 98.6%)	PI300	A	-	10
ОС	Viewer	+	0	0	2	11	29	100% (84.5% -100%)	]	Viewer	+	0
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	Viewer	+	0	0	19 2	11	29	97.5% (82% - 100%) 100% (84.5% - 100%)	MTD	Viewer	+	0
	С	-	10	10	18	0	0	95% (79.5% - 100%)	(200)	Α	-	10
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	B	-	10	10	19	28	0	95% (84.5% - 100%)	1 L	C	-	10
	Viewer	+	0	0	2	29	10	97.5% (84.5% - 100%)	MTD	Viewer	+	0
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tG	Viewer	+	0	0	0	17	21	95% (83.5% - 98.6%)	11	Viewer	+	0
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	В	-	10	12	18	1	0	100% (84.5% - 100%)
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	Viewer	+	0	0	0	18	21	97.5% (82% - 100%)
	C	-	10	12	18	1	0	100% (84.5% - 100%)
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000)	A	-	10	12	16	2	0	95% (84.5% - 100%)
•	Viewer	+	0	0	0	18	21	97.5% (82% - 100%)
	В		10	12	18	1	0	100% (84.5% - 100%)
	Viewer	+	0	0	0	18	21	97.5% (82% - 100%)
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	Viewer B	+	10	10	10	20	20	100% (84.5% - 100%)
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	Viewer	+	0	0	2	20	20	100% (84.5% - 100%)
	В	-	10	10	18	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% - 100%)
	С	-	10	10	18	0	0	95% (79.5% - 100%)
ET	Viewer	+	0	0	2	21	19	100% (91.2% - 100%)
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	C	-	10	11	17	0	0	95% (83.5% - 98.6%)
ET	Viewer	+	0	0	2	20	20	100% (91.2% - 100%)
nAMP		-	10	15	13	0	0	95% (83.5% - 98.6%)
	Viewer	+	0	0	2	20	20	100% (91.2% - 100%)
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	Viewer	+	0	0	2	20	20	100% (91.2% - 100%)
	С	-	10	15	13	0	0	95% (83.5% - 98.6%)
	Viewer	+	0	0	1	20	20	100% (84.5% - 100%)
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OP/O 100  OP/O 300  TD 00)	A Viewer B Viewer C Viewer B Viewer C Viewer A Viewer C Viewer A Viewer C Viewer A Viewer C Viewer A Viewer A Viewer C Viewer A	+ + + + + + + + + + + + + + + + + + + +	0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16 0 16 0 16 0 16 0 16 0 19 0 19 0 19 0 13 0 13 0 13 0 12 0 0 12 0 0 0 13 0 0 0 0 0 0 0 0 0 0 0 0 0	12 2 12 2 12 3 11 12 2 9 2 9 1 10 2 15 15 16 1 17 2 16 1 17 17 19 9 1 19 19 19 19 19 19 19 19 19 19 19	0 20 0 28 0 28 0 28 0 20 0 20 0 0 20 0 15 0 15 0 15 0 19 0 19 0 19 0 18 0 18 0 19 0 19 0 19	0 20 0 12 0 12 0 20 0 20 0 20 0 20 0 25 0 25	95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 95% (79.5% - 100%) 95% (83.5% - 98.6%) 100% (91.2% - 100%) 92.5% (80.1% - 97.4%) 100% (91.2% - 100%) 95% (83.5% - 98.6%) 100% (84.5% - 100%) 95% (83.5% - 98.6%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (91.2% - 100%) 97.5% (82% - 100%) 97.5% (83.5% - 98.6%) 100% (91.2% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%)
OP/O 100 OP/O 300 TD 00)	A Viewer B Viewer C Viewer B Viewer C Viewer A Viewer C Viewer B Viewer C Viewer A Viewer B Viewer C Viewer A Viewer C Viewer A Viewer C Viewer A Viewer C Viewer A	+ + + + + + + + + + + + + + + + + + + +	0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 0 10 0 0 10 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16 0 16 0 16 0 16 0 16 0 19 0 19 0 19 0 19 0 13 0 13 0 12 0 12 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	12 2 12 2 12 3 11 2 2 9 2 9 2 9 1 10 2 15 2 15 1 16 1 17 17 1 19 17 19 19 19 19 19 19 19 19 19 19 19 19 19	0 20 0 28 0 28 0 28 0 0 20 0 0 20 0 0 20 0 15 0 15 0 15 0 1	0 20 0 12 0 12 0 0 20 0 0 25 0 0 25 0 0 21 0 0 22 0 0 22 0 0 22 0 0 22 0 0 22 0 0 22 0 0 21 0 0 0 21 0 0 0 0	95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 95% (79.5% - 100%) 95% (83.5% - 98.6%) 100% (91.2% - 100%) 92.5% (80.1% - 97.4%) 100% (91.2% - 100%) 95% (83.5% - 98.6%) 100% (84.5% - 100%) 95% (83.5% - 98.6%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (91.2% - 100%) 95% (83.5% - 98.6%) 100% (91.2% - 100%) 97.5% (83.5% - 98.6%) 100% (91.2% - 100%) 97.5% (83.5% - 98.6%) 100% (84.5% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%)
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1100	A Viewer B Viewer C Viewer A Viewer C Viewer A Viewer C Viewer C Viewer A Viewer C Viewer B Viewer C Viewer A Viewer C Viewer A Viewer B Viewer C Viewer A Viewer B Viewer A Viewer B Viewer B Viewer A Viewer B	+ + + + + + + + + + + + + + + + + + + +	0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 0 10 0 0 10 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16 0 16 0 16 0 16 0 16 0 19 0 19 0 19 0 19 0 13 0 13 0 12 0 12 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0	12 2 12 2 12 3 11 2 2 9 2 9 2 9 1 10 2 15 2 15 1 16 1 17 17 1 19 17 19 19 19 19 19 19 19 19 19 19 19 19 19	0 20 0 28 0 28 0 28 0 0 20 0 0 20 0 0 20 0 15 0 15 0 15 0 1	0 20 0 12 0 12 0 0 20 0 0 25 0 0 25 0 0 21 0 0 22 0 0 22 0 0 22 0 0 22 0 0 22 0 0 22 0 0 21 0 0 0 21 0 0 0 0	95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 95% (79.5% - 100%) 95% (83.5% - 98.6%) 100% (91.2% - 100%) 92.5% (80.1% - 97.4%) 100% (91.2% - 100%) 95% (83.5% - 98.6%) 100% (84.5% - 100%) 95% (83.5% - 98.6%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 95% (79.5% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (91.2% - 100%) 95% (83.5% - 98.6%) 100% (91.2% - 100%) 97.5% (83.5% - 98.6%) 100% (91.2% - 100%) 97.5% (83.5% - 98.6%) 100% (84.5% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%) 100% (84.5% - 100%) 97.5% (82% - 100%)

100% (84.5% - 100%)

	Α	-	10	13	16	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	18	22	100% (84.5% - 100%)
	В	-	10	13	15	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	1	18	22	100% (84.5% - 100%)
	С	-	10	13	16	0	0	97.5% (82% - 100%)
PPX	Viewer	+	0	0	2	20	20	100% (84.5% -100%)
	Α	-	10	10	18	0	0	95% (79.5% - 100%)
	Viewer	-	0	0	2	1 20	20	100% (84.5% -100%)
	В	-	10	10	18	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% -100%)
	С	-	10	10	18	0	0	95% (79.5% - 100%)
T©A	Viewer	+	0	2 0	1	30	30	100%(84.5% - 100%)
	Α	_	10	19	10	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	10	30	100% (84.5% - 100%)
	В	-	10	19	9	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	1	10	30	100% (84,5% - 100%)
11	C	-	10	19	10	0	0	97.5% (82% - 100%)
тнс	Viewer	+	0	0	1	17	22	97.5% (84.5% - 100%)
(25)	A	÷	10	12	17	1	0	97.5% (82% - 100%)
2	Viewer	+	0	30 0	1	18	22	100% (84.5% - 100%)
11	B	-	10	12	17	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	1	18	22	100% (84.5% - 100%)
	C	÷	10	12	17	0	0	97.5% (82% - 100%)
THC	Viewer	+	0	0	2	20	20	100% (91.2% - 100%)
(40)	A		10	13	15	0	0	95% (83.5% - 98.6%)
(40)	Viewer	+	0	0	1	20	20	100% (91.2% - 100%)
	B	-	10	13	16			<u> </u>
	Viewer	+	0	0	2	0 20	0 20	97.5% (87.1% - 99.6%)
	C	-	_	13	15			100% (91.2% - 100%)
THC		_	10 0	0	1	0 18	0 22	95% (83.5% - 98.6%)
(50)	Viewer A	+	10	12	17	0	0	100% (84.5% - 100%)
(50)		-					_	97.5% (82% - 100%)
	Viewer B	+	0	0	1	18	22	100% (84.5% - 100%)
	_	-	10	12	17	0	0	97.5% (82% - 100%)
	Viewer C	+	0	0	1 1	18	22	100% (84.5% - 100%)
		-	10	12	17	0	0	97.5% (82% - 100%)
TRA	Viewer	+	0	0	2	19	21	100% (84.5% - 100%)
(100)	Α	-	10	20	8	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	1	19	20	97.5% (84.5% - 100%)
	В	-	10	20	9	1	0	97.5% (79.5% - 100%)
	Viewer	+	0	0	1	18	20	95% (84.5% - 100%)
	С	-	10	20	9	2	0	97.5% (82% - 100%)
TRA	Viewer	+	0	0	2	19	21	100% (84.5% - 100%)
200)	Α	-	10	20	8	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	2	19	21	100% (84.5% - 100%)
	В	-	10	20	8	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	1	19	21	100% (84.5% - 100%)
	С	-	10	20	9	0	0	97.5% (82% - 100%)
TRA	Viewer	+	0	0	2	19	21	100% (84.5% - 100%)
1000	Α	-	10	20	8	0	0	95% (79.5% - 100%)
)	Viewer	+	0	0	1	19	20	97.5% (84.5% - 100%)
	В	-	10	20	9	1	0	97.5% (79.5% - 100%)
	Viewer	+	0	0	1	18	20	95% (84.5% - 100%)
	С	-	10	20	9	2	0	97.5% (82% - 100%)

To investigate the precision and sensitivity, each drug sample was analyzed at the following concentrations cutoff -100%, cutoff -75%, cutoff -50%, cutoff -25%, cutoff -25%, cutoff -50%, cutoff +75% and the cutoff +100%. All concentrations were confirmed with GC-MS. The study was performed 2 runs /day and lasted 25 days using three different lots of the corresponding drug test. Totally 3 operators participated in the study of the corresponding drug test. Each of the 3 operators tests 2 aliquots at each concentration for each lot per day (2 runs/day), for a total of 50 determinations per concentration per lot of the corresponding drug test

Drug Test	Approximate Concentration of	Number of Determinations	Ne	Results egative/Positi	ve
	Sample (ng/mL)	per Lot	Lot 1	Lot 2	Lot 3
6-MAM	0	50	50/0	50/0	50/0
	2.5	50	50/0	50/0	50/0
	5	50	50/0	50/0	50/0
	7.5	50	47/3	48/2	47/3
	10	50	4/46	5/45	6/44
	12.5	50	3/47	2/48	2/48
	15	50	0/50	0/50	0/50
	17.5	50	0/50	0/50	0/50
	20	50	0/50	0/50	0/50
AMP	0	50	50/0	50/0	50/0
(300)	75	50	50/0	50/0	50/0
	150	50	50/0	50/0	50/0
	225	50	50/0	50/0	50/0
	300	50	5/45	5/45	4/46
	375	50	0/50	0/50	0/50
	450	50	0/50	0/50	0/50
	525	50	0/50	0/50	0/50
	600	50	0/50	0/50	0/50
AMP	0	50	50/0	50/0	50/0
(500)	125	50	50/0	50/0	50/0
	250	50	50/0	50/0	50/0
	375	50	50/0	50/0	50/0
	500	50	6/44	7/43	6/44
	625	50	0/50	0/50	0/50
	750	50	0/50	0/50	0/50
	875	50	0/50	0/50	0/50
	1000	50	0/50	0/50	0/50
AMP	0	50	50/0	50/0	50/0
(1000)	250	50	50/0	50/0	50/0
	500	50	50/0	50/0	50/0
	750	50	50/0	50/0	50/0
	1000	50	5/45	6/44	6/44
	1250	50	0/50	0/50	0/50
	1500	50	0/50	0/50	0/50
	1750	50	0/50	0/50	0/50
	2000	50	0/50	0/50	0/50
BAR	0	50	50/0	50/0	50/0
	75	50	50/0	50/0	50/0
	150	50	50/0	50/0	50/0

-	225 300	50 50	50/0 5/45	50/0	50/0
-	375	50	0/50	5/45 0/50	6/44 0/50
	450	50	0/50	0/50	0/50
	525	50	0/50	0/50	0/50
BUP	600 0	50 50	0/50 50/0	0/50 50/0	0/50 50/0
-	2.5	50	50/0	50/0	50/0
	5.0	50	50/0	50/0	50/0
_	7.5	50	50/0	50/0	50/0
-	10.0 12.5	50 50	5/45 0/50	5/45 0/50	6/44 0/50
	15.0	50	0/50	0/50	0/50
	17.5	50	0/50	0/50	0/50
770 (200)	20.0	50	0/50	0/50	0/50
BZO (200)	0 50	50 50	50/0 50/0	50/0 50/0	50/0 50/0
	100	50	50/0	50/0	50/0
	150	50	50/0	50/0	50/0
-	200 250	50 50	4/46	4/46	4/46 0/50
-	300	50	0/50 0/50	0/50 0/50	0/50
	350	50	0/50	0/50	0/50
	400	50	0/50	0/50	0/50
BZO (300)	0	50	50/0 50/0	50/0	50/0
<u> </u>	75 150	50 50	50/0	50/0 50/0	50/0 50/0
	225	50	50/0	50/0	50/0
	300	50	6/44	5/45	6/44
<u> </u>	375	50	0/50	0/50	0/50
<u> </u>	450 525	50 50	0/50 0/50	0/50 0/50	0/50 0/50
	600	50	0/50	0/50	0/50
COC (100)	0	50	50/0	50/0	50/0
-	25 50	50	50/0	50/0	50/0
-	50 75	50 50	50/0 50/0	50/0 50/0	50/0 50/0
	100	50	4/46	4/46	3/47
	125	50	0/50	0/50	0/50
<u> </u>	150 175	50 50	0/50 0/50	0/50 0/50	0/50 0/50
-	200	50	0/50	0/50	0/50
COC (150)	0	50	50/0	50/0	50/0
	37.5	50	50/0	50/0	50/0
-	75 112.5	50 50	50/0 50/0	50/0 50/0	50/0 50/0
	150	50	7/43	6/44	7/43
	187.5	50	0/50	0/50	0/50
	225	50	0/50	0/50	0/50
-	262.5 300	50 50	0/50 0/50	0/50 0/50	0/50 0/50
COC (300)	0	50	50/0	50/0	50/0
	75	50	50/0	50/0	50/0
<u> </u>	150	50 50	50/0	50/0	50/0
<u> </u>	225 300	50	50/0 6/44	50/0 5/45	50/0 5/45
	375	50	0/50	0/50	0/50
	450	50	0/50	0/50	0/50
-	525 600	50 50	0/50 0/50	0/50 0/50	0/50 0/50
COT (200)	0	50	50/0	50/0	50/0
	50	50	50/0	50/0	50/0
	100	50	50/0	50/0	50/0
-	150 200	50 50	48/2 6/44	49/1 4/46	47/3 5/45
<u> </u>	250	50	4/46	3/47	2/48
	300	50	0/50	0/50	0/50
	350	50	0/50	0/50	0/50
EDDP (100)	400 0	50 50	0/50 50/0	0/50 50/0	0/50 50/0
FDDL (100)	25	50	50/0	50/0	50/0
	50	50	50/0	50/0	50/0
	75	50	48/2	46/4	47/3
-	100 125	50 50	6/44 2/48	5/45 3/47	5/45 5/45
	150	50	0/50	0/50	0/50
	175	50	0/50	0/50	0/50
EDDD (200)	200	50	0/50	0/50	0/50
EDDP (300)	0 75	50 50	50/0 50/0	50/0 50/0	50/0 50/0
	150	50	50/0	50/0	50/0
	225	50	50/0	50/0	50/0
-	300	50	6/44	5/45	6/44
$\vdash$	375 450	50 50	0/50 0/50	0/50 0/50	0/50 0/50
	525	50	0/50	0/50	0/50
	600	50	0/50	0/50	0/50
EtG(300)	0	50	50/0	50/0	50/0
-	75 150	50 50	50/0 50/0	50/0 50/0	50/0 50/0
F	225	50	50/0	50/0	50/0
	300	50	5/45	4/46	5/45
	375	50	0/50	0/50	0/50
<u> </u>	450 5255	50 50	0/50 0/50	0/50 0/50	0/50 0/50
-	600	50	0/50	0/50	0/50
EtG(500)	0	50	50/0	50/0	50/0
	125	50	50/0	50/0	50/0
-	250 375	50 50	50/0 50/0	50/0 50/0	50/0
_	375 500	50	50/0 5/45	50/0 4/46	50/0 5/45
l l			_	0/50	0/50
-	625	50	0/50	0/30	0/30
	625 750 875	50 50 50	0/50	0/50 0/50	0/50 0/50

FTY(20)	1000	50	0/50	0/50	0/50
	0	50	50/0	50/0	50/0
	5	50	50/0	50/0	50/0
	10	50	50/0	50/0	50/0
	15 20	50 50	50/0 4/46	50/0 5/45	50/0 5/45
	25	50	0/50	0/50	0/50
	30	50	0/50	0/50	0/50
	35	50	0/50	0/50	0/50
FTY(100)	40 0	50 50	0/50 50/0	0/50 50/0	0/50 50/0
	25	50	50/0	50/0	50/0
	50	50	50/0	50/0	50/0
	75	50	50/0	50/0	50/0
<u> </u>	100	50	3/47	2/48	4/46
<u> </u>	125 150	50 50	0/50 0/50	0/50 0/50	0/50 0/50
	175	50	0/50	0/50	0/50
	200	50	0/50	0/50	0/50
K2	0	50	50/0	50/0	50/0
JWH-018 Pentanoic	12.5 25.0	50 50	50/0 50/0	50/0 50/0	50/0 50/0
Acid	37.5	50	50/0	50/0	50/0
	50.0	50	5/45	6/44	5/45
	62.5	50	0/50	0/50	0/50
<u> </u>	75.0	50	0/50	0/50	0/50
<u> </u>	87.5 100.0	50 50	0/50 0/50	0/50 0/50	0/50 0/50
K2	0	50	50/0	50/0	50/0
JWH-073	12.5	50	50/0	50/0	50/0
Butanoic	25.0	50	50/0	50/0	50/0
Acid	37.5	50	50/0	50/0	50/0
<u> </u>	50.0 62.5	50 50	5/45 0/50	6/44 0/50	5/45 0/50
$\vdash$	75.0	50	0/50	0/50	0/50
	87.5	50	0/50	0/50	0/50
	100.0	50	0/50	0/50	0/50
KET (300)	0	50	50/0	50/0	50/0
<u> </u>	75 150	50 50	50/0 50/0	50/0 50/0	50/0 50/0
<u> </u>	225	50	48/2	47/3	47/3
	300	50	5/45	5/45	5/45
	375	50	2/48	1/49	3/47
<u> </u>	450	50	0/50	0/50	0/50
-	525 600	50 50	0/50 0/50	0/50 0/50	0/50 0/50
KET (1000)	0	50	50/0	50/0	50/0
` ′	250	50	50/0	50/0	50/0
	500	50	50/0	50/0	50/0
<u> </u>	750	50	47/3	48/2	47/3
-	1000 1250	50 50	5/45 2/48	4/46 2/48	5/45 3/47
<u> </u>	1500	50	0/50	0/50	0/50
	1750	50	0/50	0/50	0/50
	2000	50	0/50	0/50	0/50
KRA	0	50	50/0	50/0	50/0
<u> </u>	75 150	50 50	50/0 50/0	50/0 50/0	50/0 50/0
	225	50	50/0	50/0	50/0
	300	50	3/47	5/45	4/46
	375	50	0/50	0/50	0/50
<u> </u>	450	50	0/50	0/50	0/50
-	525 600	50 50	0/50 0/50	0/50 0/50	0/50 0/50
MET	0	50	50/0	50/0	50/0
(mAMP)	75	50	50/0	50/0	50/0
(300)	150	50	50/0	50/0	50/0
<u> </u>	225	50	50/0	50/0	50/0
<u> </u>	300 375	50 50	3/47 0/50	5/45 0/50	4/46 0/50
	450	50	0/50	0/50	0/50
	525	50	0/50	0/50	0/50
MET	600	50	0/50	0/50	0/50
MET (mAMP)	0 125	50 50	50/0 50/0	50/0 50/0	50/0 50/0
(500)	250	50	50/0	50/0	50/0
	375	50	50/0	50/0	50/0
` ′ _	500	50	5/45	4/46	4/46
	625	50	0/50 0/50	0/50	0/50 0/50
				0/50	0/30
	750 875	50 50			0/50
	875 1000	50 50 50	0/50 0/50	0/50 0/50	0/50 0/50
MET	875 1000 0	50 50 50	0/50 0/50 50/0	0/50 0/50 50/0	0/50 50/0
MET (mAMP)	875 1000 0 250	50 50 50 50	0/50 0/50 50/0 50/0	0/50 0/50 50/0 50/0	0/50 50/0 50/0
MET (mAMP)	875 1000 0 250 500	50 50 50 50 50	0/50 0/50 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0	0/50 50/0 50/0 50/0
MET (mAMP)	875 1000 0 250 500 750	50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0	0/50 50/0 50/0 50/0 50/0
MET (mAMP)	875 1000 0 250 500	50 50 50 50 50	0/50 0/50 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0	0/50 50/0 50/0 50/0
MET (mAMP)	875 1000 0 250 500 750 1000 1250	50 50 50 50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50 0/50	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50
MET (mAMP)	875 1000 0 250 500 750 1000 1250 1500 1750	50 50 50 50 50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 50/0 6/44 0/50 0/50	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000	50 50 50 50 50 50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 0/50
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0	50 50 50 50 50 50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50 0/50 50/0	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 0/50 50/0
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000	50 50 50 50 50 50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 0/50
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0 125	50 50 50 50 50 50 50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50 50/0 50/0	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 0/50 50/0 50/0
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0 125 250 375 500	50 50 50 50 50 50 50 50 50 50 50 50 50 5	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50 0/50 50/0 50/0 50/0 6/44	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 0/50 50/0 50/0 50/0 50/
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0 125 250 375 500 625	50 50 50 50 50 50 50 50 50 50 50 50 50 5	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50	0/50 50/0 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 50/0 50/0 50/0 50/0 50/
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0 125 250 375 500 625 750	50 50 50 50 50 50 50 50 50 50 50 50 50 5	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50 50/0 50/0 50/0 50/0 5	0/50 50/0 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 50/0 50/0 50/0 50/0 50/
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0 125 250 375 500 625 750 875	50 50 50 50 50 50 50 50 50 50 50 50 50 5	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50 50/0 50/0 50/0 50/0 0/50 0/50 0/50 0/50 0/50 0/50	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 50/0 50/0 50/0 50/0 50/
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0 125 250 375 500 625 750	50 50 50 50 50 50 50 50 50 50 50 50 50 5	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 6/44 0/50 0/50 0/50 50/0 50/0 50/0 50/0 5	0/50 50/0 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 50/0 50/0 50/0 50/0 50/
MET (mAMP) (1000)	875 1000 0 250 500 750 1000 1250 1500 1750 2000 0 125 250 375 500 625 750 875	50 50 50 50 50 50 50 50 50 50	0/50 0/50 50/0 50/0 50/0 50/0 50/0 50/0	0/50 0/50 50/0 50/0 50/0 50/0 50/0 6/44 0/50 0/50 50/0 50/0 50/0 50/0 50/0 5	0/50 50/0 50/0 50/0 50/0 50/0 4/46 0/50 0/50 0/50 50/0 50/0 50/0 50/0 50/

125   59   0.950   0.950   0.950   0.950   1			1			
150	_	100	50	4/46	4/46	5/45
MOPYOPISOP  200  50  500  500  500  500  500  500	-					
MOPPOPS900						
TFS		200	50		0/50	0/50
150	MOP/OPI300					
1255   590   5900   5900   5900   5900   1	_					
### A STATE	<u> </u>					
### 450		300	50	7/43		6/44
MTD (200)  100  100  100  100  100  100  100						
### Company   Co						
MTD (209)  1	_				_	
SO	MTD (200)					
150	( ) )					
200   50   544   644   446						
250						
MITD (309)	_					
SSO	_					
MTD (300)  0						
75		400	50			
150	MTD (300)					
225   50   500   500   500   500	_					
300   50   5145   7143   5145   456   450   450   500   0.050   0.050   0.050   0.050   4450   500   0.050	_					
375   50   0150   0750   0750   0750						
S25   50					_	
					_	
DPI	<u> </u>					
SOO	) PI					
1000   50   500	~ ·					
1500						
2500		1500	50	50/0	50/0	50/0
3000   50   0.050   0.050   0.050						
SS00   S0   OISO   OISO   OISO	<u> </u>					
DXY	$\vdash$					
DXY						
50	OXY					
75				50/0	50/0	50/0
100   50						
125   50				_		
150						
175						
PCP    0   50   500   500   500   500   500     6.25   50   500   500   500   500     18.75   50   500   500   500   500     25   50   6044   4446   5445     31.25   50   0/50   0/50   0/50     37.5   50   0/50   0/50   0/50     50   50   0/50   0/50   0/50     50   50   0/50   0/50   0/50     50   50   0/50   0/50   0/50     50   50   0/50   0/50   0/50     50   50   0/50   0/50   0/50     50   50   0/50   0/50   0/50     50   50   0/50   0/50   0/50     50   50   50   0/50   0/50   0/50     50   50   50   500   500   500     50   50		175	50			
6.25   50   500   500   500   500     12.5   50   500   500   500   500     12.5   50   500   500   500   500     25   50   6/44   4/46   5/45     31.25   50   0/50   0/50   0/50     43.75   50   0/50   0/50   0/50     50   50   50   0/50   0/50   0/50     43.75   50   0/50   0/50   0/50   0/50     50   50   50   0/50   0/50   0/50     50   50   50   0/50   0/50   0/50     75   50   50   0/50   500   500     75   50   50   500   500   500   500     150   50   50   500   500   500     225   50   50   0/50   0/50   0/50     300   50   6/44   5/45   5/45     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     450   50   0/50   0/50   0/50     525   50   500   500   500   0/50     600   50   0/50   0/50   0/50     525   50   500   500   500   500     500   50   5						
12.5   50   50/0   50/0   50/0   50/0   18.75   50   50/0   50/0   50/0   25   50   6/44   4/46   5/45   31.25   50   0/50   0/50   0/50   0/50   37.5   50   0/50   0/50   0/50   0/50   43.75   50   0/50   0/50   0/50   0/50   50   50   50   0/50   0/50   0/50   75   50   50   0/50   50/0   50/0   75   50   50   0/50   50/0   50/0   150   50   50   50/0   50/0   50/0   225   50   50/0   50/0   50/0   50/0   300   50   50   50/0   50/0   50/0   300   50   6/44   5/45   5/45   375   50   0/50   0/50   0/50   0/50   450   50   50   0/50   0/50   0/50   450   50   50   0/50   0/50   0/50   450   50   50   0/50   0/50   0/50   5225   50   0/50   0/50   0/50   0/50   5255   50   0/50   0/50   0/50   0/50   5255   50   0/50   0/50   0/50   0/50   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   50   50/0   50/0   50/0   500   50   6/44   5/45   4/46   50   50   50   0/50   0/50   0/50   50   50   50   0/50   0/50   0/50   50   50   50   0/50   0/50   50   50   50   0/50   0/50   50   50   50   0/50   0/50   50   50   50   0/50   0/50   50   50   50   50/0   50/0   50   50   50/0   50/0   50   50   50/0   50/0   50   50   50/0   50/0   50	PCP					
18.75   50   50/0   50/0   50/0   25	_					
25   50   6 44   4 46   5 45     31.25   50   0 50   0 50   0 50   0 50     37.5   50   0 50   0 50   0 50   0 50     43.75   50   50   0 50   0 50   0 50     50   50	_					
37.5   50						
### PATE   PATE   PATE   PATE   ### PATE   PAT		31.25	50	0/50	0/50	0/50
PPX 0 50 50 0/50 0/50 0/50 0/50 75 50 50 50/0 50/0 50/0 150 50 50 50/0 50/0 50/0 150 50 50 50/0 50/0 50/0 150 50 50 50/0 50/0 50/0 225 50 50 50/0 50/0 50/0 300 50 6/44 5/45 5/45 375 50 0/50 0/50 0/50 0/50 450 50 50 0/50 0/50 0/50 450 50 0/50 0/50 0/50 0/50 600 50 0/50 0/50 0/50 0/50 500 50 50/0 50/					_	
PPX					_	
75	DDY					
150						
300   50   6/44   5/45   5/45   375   50   0/50   0/50   0/50   0/50   450   50   50   0/50   0/50   0/50   6/50   525   50   0/50   0/50   0/50   0/50   600   50   50   50/0						
375		225	50	50/0	50/0	50/0
450						
S25						
TCA    CA	_					
TCA  250 50 50 500 500 500 500 500 500 500	<u> </u>					
250   50   50/0   50/0   50/0   50/0	ГСА					
750		250	50	50/0	50/0	50/0
1000   50   6/44   5/45   4/46     1250   50   0/50   0/50   0/50     1500   50   0/50   0/50   0/50     1750   50   0/50   0/50   0/50     2000   50   0/50   0/50   0/50     2000   50   0/50   0/50   0/50     6.25   50   50/0   50/0   50/0     12.5   50   50/0   50/0     18.75   50   50/45   5/45   3/47     31.25   50   0/50   0/50   0/50     43.75   50   0/50   0/50   0/50     10   50   50/0   50/0   50/0     10   50   50/0   50/0     10   50   50/0   50/0     10   50   50/0   50/0     10   50   50/0   50/0     10   50   50/0   50/0     20   50   50/0   50/0   50/0     30   50   50/0   50/0   50/0     40   50   50/0   50/0   50/0     50   50   0/50   0/50     10   50   50/0   50/0   50/0     20   50   50/0   50/0   50/0     30   50   50/0   50/0   50/0     40   50   50/0   50/0   50/0     60   50   0/50   0/50   0/50     60   50   0/50   0/50   0/50     70   50   0/50   0/50   0/50     10   50   50   0/50   0/50     11   50   50   0/50   0/50     12.5   50   50/0   50/0   50/0     12.5   50   50/0   50/0   50/0     12.5   50   50/0   50/0   50/0     25.0   50   50   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0   50/0     50.0   50   50/0   50/0     50.0   50   50/0   50/0     50.0   50   0/50   0/50     50.0   50   0/50						
1250	<u> </u>				_	
1500	$\vdash$					
1750	$\vdash$					
THC (25)  0 50 50/0 50/0 50/0 50/0  6.25 50 50 50/0 50/0 50/0  12.5 50 50 50/0 50/0 50/0  18.75 50 50 50/0 48/2 47/3  25 50 5/45 5/45 3/47  31.25 50 0/50 0/50 0/50 0/50  43.75 50 0/50 0/50 0/50 0/50  50 50 0/50 0/5						
6.25 50 50/0 50/0 50/0 50/0 12.5 50/0 12.5 50 500 50/0 50/0 50/0 50/0 50/0 50/0		2000		0/50	0/50	0/50
12.5 50 50/0 50/0 50/0 50/0 18.75 50 50 50/0 48/2 47/3 25 50 50/0 5/45 5/45 3/47 31.25 50 0/50 0/50 0/50 0/50 0/50 0/50 0/50	THC (25)			_		
18.75	<u> </u>			_	_	
25 50 50 5/45 5/45 3/47  31.25 50 2/48 3/47 1/49  37.5 50 0/50 0/50 0/50 0/50  43.75 50 0/50 0/50 0/50 0/50  50 50 50 0/50 0/	<u> </u>					
31.25 50 2/48 3/47 1/49 37.5 50 0/50 0/50 0/50 0/50 43.75 50 0/50 0/50 0/50 0/50 50 50 0/50 0/50						
43.75   50			50	2/48	3/47	
THC (40)  50  50  50  50  50  50/50  50/60  50/60  50/60  50/00  50/50  60  6	<u> </u>			_	_	
THC (40)  0 50 50/0 50/0 50/0 50/0  10 50 50/0 50/0 50/0 50/0  20 50 50 50/0 50/0 50/0  30 50 50/0 50/0 50/0  40 50 5/45 5/45 3/47  50 50 0/50 0/50 0/50  60 50 0/50 0/50 0/50 0/50  70 50 0/50 0/50 0/50 0/50  80 50 0/50 0/50 0/50 0/50  12.5 50 50/0 50/0 50/0 50/0  12.5 50 50/0 50/0 50/0 50/0  25.0 50 50/0 50/0 50/0 50/0  37.5 50 50/0 50/0 50/0 50/0  50.0 50 4/46 4/46 5/45  62.5 50 0/50 0/50 0/50  75.0 50 0/50 0/50 0/50  75.0 50 0/50 0/50 0/50  75.0 50 0/50 0/50 0/50  75.0 50 0/50 0/50 0/50  75.0 50 0/50 0/50 0/50  75.0 50 0/50 0/50 0/50  87.5 50 0/50 0/50 0/50	<u> </u>				_	
THC (50)  10  50  50/50  60  50  50  0/50  50/0	HC (40)					
20 50 50/0 50/0 50/0 50/0 30/0 30 50/0 50/	- ()			_		
40				_	_	
50   50   0/50   0/50   0/50   0/50     60   50   0/50   0/50   0/50   0/50     70   50   0/50   0/50   0/50   0/50     80   50   0/50   0/50   0/50     10   50   50/0   50/0   50/0     12.5   50   50/0   50/0   50/0     25.0   50   50/0   50/0   50/0     37.5   50   50/0   50/0   50/0     50.0   50   4/46   4/46   5/45     62.5   50   0/50   0/50   0/50     75.0   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     60   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     75.0   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     75.0   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     75.0   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     75.0   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     75.0   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     75.0   50   0/50   0/50   0/50     87.5   50   0/50   0/50   0/50     75.0   75.0   75.0   0/50   0/50     75.0   75.0   75.0   0/50   0/50     75.0   75.0   75.0   0/50   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   0/50     75.0   75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0   75.0   75.0     75.0						
60   50   0/50   0/50   0/50     70   50   0/50   0/50   0/50     80   50   0/50   0/50   0/50     80   50   0/50   0/50   0/50     12.5   50   50/0   50/0     25.0   50   50/0   50/0     37.5   50   50/0   50/0     50.0   50   4/46   4/46     62.5   50   0/50   0/50     75.0   50   0/50   0/50     87.5   50   0/50   0/50     87.5   50   0/50   0/50     87.5   50   0/50   0/50     87.5   50   0/50   0/50     50,0   0/50   0/50     60,0   0/50     60,0   0/5	<u> </u>			_		
70 50 0/50 0/50 0/50 0/50  80 50 0/50 0/50 0/50 0/50  12.5 50 50/0 50/0 50/0 50/0  25.0 50 50/0 50/0 50/0  37.5 50 50/0 50/0 50/0  50.0 50 4/46 4/46 5/45  62.5 50 0/50 0/50 0/50  75.0 50 0/50 0/50 0/50  87.5 50 0/50 0/50 0/50 0/50	$\vdash$			_	_	
80         50         0/50         0/50         0/50           10         50         50/0         50/0         50/0           12.5         50         50/0         50/0         50/0           25.0         50         50/0         50/0         50/0           37.5         50         50/0         50/0         50/0           50.0         50         4/46         4/46         5/45           62.5         50         0/50         0/50         0/50           75.0         50         0/50         0/50         0/50           87.5         50         0/50         0/50         0/50	<u> </u>					
THC (50)         0         50         50/0         50/0         50/0           12.5         50         50/0         50/0         50/0           25.0         50         50/0         50/0         50/0           37.5         50         50/0         50/0         50/0           50.0         50         4/46         4/46         5/45           62.5         50         0/50         0/50         0/50           75.0         50         0/50         0/50         0/50           87.5         50         0/50         0/50         0/50	<u> </u>					
25.0         50         50/0         50/0         50/0           37.5         50         50/0         50/0         50/0           50.0         50         4/46         4/46         5/45           62.5         50         0/50         0/50         0/50           75.0         50         0/50         0/50         0/50           87.5         50         0/50         0/50         0/50	THC (50)					
37.5         50         50/0         50/0         50/0           50.0         50         4/46         4/46         5/45           62.5         50         0/50         0/50         0/50           75.0         50         0/50         0/50         0/50           87.5         50         0/50         0/50         0/50					_	
50.0         50         4/46         4/46         5/45           62.5         50         0/50         0/50         0/50           75.0         50         0/50         0/50         0/50           87.5         50         0/50         0/50         0/50	$\vdash$			_	_	
62.5         50         0/50         0/50         0/50           75.0         50         0/50         0/50         0/50           87.5         50         0/50         0/50         0/50	$\vdash$			_		
75.0 50 0/50 0/50 0/50 87.5 50 0/50 0/50 0/50	$\vdash$				_	
	[				_	
				_	_	

TRA (100)	0	50	50/0	50/0	50/0
` '	25	50	50/0	50/0	50/0
	50	50	50/0	50/0	50/0
	75	50	48/2	49/1	47/3
	100	50	4/46	5/45	5/4
	125	50	1/49	4/46	3/47
	150	50	0/50	0/50	0/50
	175	50	0/50	0/50	0/50
	200	50	0/50	0/50	0/50
TRA (200)	0	50	50/0	50/0	50/0
	50	50	50/0	50/0	50/0
	100	50	50/0	50/0	50/0
	150	50	50/0	50/0	50/0
	200	50	4/46	6/44	5/4
	250	50	0/50	0/50	0/50
	300	50	0/50	0/50	0/50
	350	50	0/50	0/50	0/50
	400	50	0/50	0/50	0/50
TRA (1000)	0	50	50/0	50/0	50/0
	250	50	50/0	50/0	50/0
	500	50	50/0	50/0	50/0
	750	50	50/0	49/1	49/
	1000	50	4/46	5/45	5/45
	1250	50	2/48	3/47	2/48
	1500	50	0/50	0/50	0/50
	1750	50	0/50	0/50	0/50
	2000	50	0/50	0/50	0/50

# Specificity and Cross Reactivity

To test the specificity of the test, the test device was used to test various drugs, drug metabolites and other components of the same class that are likely to be present in urine. All the components were added to drug-free normal human urine. The following structurally related compounds produced positive results with the test

	0	50	50/0	50/0	50/0	free normal human urine. The following when tested at levels equal to or greate			
	500	50	50/0	50/0	50/0	when tested at levels equal to or greate	i tilali tile colicei	itiations listed below.	
	1000	50	50/0	50/0	50/0				
	1500	50	50/0	50/0	50/0	Items	Concentration	Items	Concentration
						items	(ng/mL)	items	(ng/mL)
	2000	50	5/45	5/45	6/44	6-Monoacetylmorphine (6-MAM)		Ketamine (KET1000)	
	2500	50	0/50	0/50	0/50		40	` '	4.000
	3000	50	0/50	0/50	0/50	6-Monoacetylmorphine	10	Ketamine	1,000
	3500	50	0/50	0/50	0/50	Codeine	10,000	Methadone	50,000
						Ethyl morphine	>100,000	Pethidine	12,500
	4000	50	0/50	0/50	0/50	Hydrocodone	10.000	Methylamphetamine	12,500
	0	50	50/0	50/0	50/0	-			
	25	50	50/0	50/0	50/0	Naltrexone	10,000	Methoxyphenamine	12,500
	50	50	50/0	50/0	50/0	Naloxone	10,000	Promethazine	25,000
						Thebaine	100,000	Phencyclidine	25,000
	75	50	50/0	50/0	50/0	Pholcodine	>100,000	Methamphetamine	,
	100	50	4/46	4/46	5/45	Filoloodiile	100,000		
	125	50	0/50	0/50	0/50			(MET300/mAMP300)	
	150	50	0/50	0/50	0/50	Oxycodone	>100,000	D(+)-Methamphetamine	300
						Hydromorphone	10,000	D-Amphetamine	40,000
	175	50	0/50	0/50	0/50	Levorphanol	>100,000	Chloroquine	8,000
	200	50	0/50	0/50	0/50		100,000		
	0	50	50/0	50/0	50/0	Amphetamine (AMP300)		(+/-)-Ephedrine	20,000
	6.25	50		50/0	50/0	d-Amphetamine	300	(-)-Methamphetamine	8,000
			50/0					(+/-) 3,4-	
	12.5	50	50/0	50/0	50/0	I-Amphetamine	17,500	Methylenedioxymethamphetamine	800
	18.75	50	50/0	50/0	50/0		,000	(MDMA)	1
	25	50	6/44	4/46	5/45		0.50	· /	10.000
						d,l-Amphetamine	850	β-Phenylethylamine	10,000
	31.25	50	0/50	0/50	0/50	(+/-) 3,4-methylenedioxyamphetamine	1 000	Trins oth shape sure and d	2 000
	37.5	50	0/50	0/50	0/50	(MDA)	1,000	Trimethobenzamide	3,000
	43.75	50	0/50	0/50	0/50			Methamphetamine	
	50	50	0/50	0/50	0/50	Phentermine	1,000		
_								(MET500/mAMP500)	
	0	50	50/0	50/0	50/0	β-Phenylethylamine	100,000	D(+)-Methamphetamine	500
	75	50	50/0	50/0	50/0	Tyramine	100,000	D-Amphetamine	25,000
	150	50	50/0	50/0	50/0	p-Hydroxynorephedrine	100,000	L-Amphetamine	37,500
	225	50	50/0	50/0	50/0			<del></del>	
						Phenylpropanolamine	>100,000	Chloroquine	10,000
	300	50	6/44	5/45	5/45	(±)Phenylpropanolamine	>100,000	(+/-)-Ephedrine	25,000
	375	50	0/50	0/50	0/50	p-Hydroxyamphetamine	100,000	d,I-Methamphetamine	500
	450	50	0/50	0/50	0/50				
						d,I-Norephedrine	100,000	L-Methamphetamine	10,000
	525	50	0/50	0/50	0/50			(+/-) 3,4-	
	600	50	0/50	0/50	0/50	d-Methamphetamine	>100,000	Methylenedioxyethylamphetamine	500
	0	50	50/0	50/0	50/0			(MDEA)	
	250	50	50/0	50/0	50/0			(+/-) 3,4-	
				50/0		I-Methamphetamine	>100,000		500
	500	50	50/0		50/0	· ·		Methylenedioxyamphetamine (MDA)	
	750	50	50/0	50/0	50/0	(+/-) 3,4-		(+/-) 3,4-	
	1000	50	6/44	5/45	4/46	Methylenedioxyethylamphetamine	>100,000	Methylenedioxymethamphetamine	1,000
	1250	50	0/50	0/50	0/50	(MDEA)		(MDMA)	T T
						(+/-)3,4-			
	1500	50	0/50	0/50	0/50				
	1750	50	0/50	0/50	0/50	Methylenedioxymethamphetamine	>100,000	β-Phenylethylamine	25,000
	2000	50	0/50	0/50	0/50	(MDMA)			
	0	50	50/0	50/0	50/0	Benzphetamine	>100,000	Trimethobenzamide	5,000
						Ephedrine	>100,000	d,l-Amphetamine	75,000
	6.25	50	50/0	50/0	50/0				
	12.5	50	50/0	50/0	50/0	I-Ephedrine	>100,000	p-Hydroxymethamphetamine	15,000
	18.75	50	50/0	48/2	47/3	I-Epinephrine	>100,000	Mephentermine	25,000
	25	50	5/45	5/45	3/47	d,I-Epinephrine	>100,000	(1R,2S)-(-)-Ephedrine	50,000
						Amphetamine (AMP500)	,		100,000
	31.25	50	2/48	3/47	1/49	Amplietaninie (AMF300)		I-Phenylephrine	100,000
	37.5	50	0/50	0/50	0/50	d-Amphetamine	500	Methamphetamine	
	43.75	50	0/50	0/50	0/50	_ /p		(MET1000/mAMP1000)	
	50	50	0/50	0/50	0/50	I-Amphetamine	25,000	D(+)-Methamphetamine	1,000
						d,l-Amphetamine	1,500	D-Amphetamine	50,000
	0	50	50/0	50/0	50/0		1,000	D-Amplicialilline	50,000
	10	50	50/0	50/0	50/0	(+/-) 3,4-methylenedioxyamphetamine	2,500	Chloroquine	50,000
	20	50	50/0	50/0	50/0	(MDA)	_,555	Squiio	,000
						Phentermine	1,500	(+/-)-Ephedrine	50,000
	30	50	50/0	50/0	50/0	Hydroxyamphetamine	8,000	(-)-Methamphetamine	25,000
	40	50	5/45	5/45	3/47	гучголуаттрпетаттпе	0,000		20,000
	50	50	0/50	0/50	0/50			(+/-)3,4-	1
	60	50	0/50	0/50	0/50	d-Methamphetamine	>100,000		2,000
								MDMA)	1
	70	50	0/50	0/50	0/50	I-Methamphetamine	>100,000	β-Phenylethylamine	50,000
	80	50	0/50	0/50	0/50		.00,000		- 5,555
	0	50	50/0	50/0	50/0	(+/-) 3,4-		L	
	12.5	50	50/0	50/0	50/0	Methylenedioxyethylamphetamine	>100,000	Trimethobenzamide	10,000
						(MDEA)			
	25.0	50	50/0	50/0	50/0	(+/-) 3,4-			
	37.5	50	50/0	50/0	50/0	Methylenedioxymethamphetamine	>100,000	Methylenedioxymethamphetamine	
	50.0	50	4/46	4/46	5/45		100,000	(MDMA)	
		50				(MDMA)		i i	
	62.5		0/50	0/50	0/50			3,4-	
	75.0	50	0/50	0/50	0/50	Ephedrine	>100,000	Methylenedioxymethamphetamine	500
	87.5	50	0/50	0/50	0/50	Ι'	1,	(MDMA)	
	100.0	50	0/50	0/50	0/50	Amphetamine (AMP1000)	1	3,4-Methylenedioxyamphetamine	3,000

		(MDA) 3.4-	
d-Amphetamine	1,000	3,4- Methylenedioxyethylamphetamine (MDEA)	300
d,I-Amphetamine	3,000	Morphine (MOP/OPI100)	
-Amphetamine	50,000	Morphine	100
(+/-)3,4-methylenedioxyamphetamine (MDA)	5,000	Codeine	100
Phentermine	3,000	Ethyl Morphine	200
Phenylpropanolamine	3,000	Hydrocodone	400
d-methamphetamine	>100,000	Hydromorphone	2,000
l-methamphetamine 3,4-Methylenedioxyethylamphetamine	>100,000	Levorphanol	5,000
(MDEA) (+/-) 3,4-	100,000	6-Monoacetylmorphine	200
Methylenedioxymethamphetamine (MDMA)	100,000	Morphine 3-β-D-glucuronide	200
Barbiturates (BAR) Secobarbital	300	Norcodeine Normorphine	500 5,000
Amobarbital	300	Oxycodone	1,000
Alphenol	150	Oxymorphone	10,000
Aprobarbital	200	Procaine	100,000
Butabarbital Butathal	75 100	Thebaine Morphine (MOP/OPI300)	5,000
Butalbital	2,500	Morphine (Mor 701 1000)	300
Cyclopentobarbital	600	Codeine	300
Pentobarbital	300	Ethyl Morphine	300
Phenobarbital Benzodiazepines (BZO200)	100	Heroin Hydrocodone	300 5,000
Oxazepam	200	Hydromorphone	5,000
Alprazolam	50	Morphine-3-β-d-glucuronide	1,000
a-Hydroxyalprazolam	500	6-Monoacetylmorphine	400
Bromazepam Chlordiazepoxide	500 800	Normorphine Oxycodone	10,000 25,000
Clobazam	50	Oxymorphone Oxymorphone	25,000 10,000
Clonazepam	700	Thebaine	30,000
Clorazepate dipotassium	50	Methadone (MTD200)	
Desalkylflurazepam Diazepam	200 50	Methadone Doxylamine	200 40,000
Estazolam	1,000	Methadone (MTD300)	40,000
Flunitrazepam	200	Methadone	300
D,L-Lorazepam	800	Doxylamine	50,000
Midazolam Nitrazepam	5,000 50	Opiate (OPI)  Morphine	2,000
Norchlordiazepoxide	100	Codeine	2,000
Nordiazepam	200	Ethyl Morphine	5,000
Temazepam	50	Heroin	2,000
Triazolam	500	Hydrocodone	12,500
Benzodiazepines (BZO300) Oxazepam	300	Hydromorphone Levorphanol	5,000 75,000
Alprazolam	200	6-Monoacetylmorphine	5,000
a-Hydroxyalprazolam	1,500	Morphine 3-β-D-glucuronide	2,000
Bromazepam Chlordiazepoxide	1,500 1,500	Norcodeine Normorphine	12,500 50,000
Clobazam	100	Oxycodone	25,000
Clonazepam	800	Oxymorphone	25,000
Clorazepate dipotassium	200	Procaine	150,000
Desalkylflurazepam Diazepam	400 200	Thebaine Oxycodone (OXY)	100,000
Estazolam	2,500	Oxycodone	100
Flunitrazepam	400	Dihydrocodeine	20,000
D,L-Lorazepam	1500	Codeine	100,000
Midazolam Nitrazepam	12,500 100	Hydromorphone Morphine	100,000 >100,000
	100	Acetylmorphine	>100,000
	200		
Norchlordiazepoxide Nordiazepam	400	Buprenorphine	>100,000
Norchlordiazepoxide Nordiazepam Temazepam	400 100	Buprenorphine Ethylmorphine	>100,000 >100,000
Norchlordiazepoxide Nordiazepam Temazepam Triazolam	400	Buprenorphine Ethylmorphine Phencyclidine (PCP)	>100,000
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP)	400 100	Buprenorphine Ethylmorphine	
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine	400 100 2,500 10 15	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX)	>100,000 25 12,500
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine	400 100 2,500 10 15 20	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene	>100,000 25 12,500 300
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine Buprenorphine Norbuprenorphine Norbuprenorphine Norbuprenorphine Norbuprenorphine	400 100 2,500 10 15	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene	>100,000 25 12,500
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine Norbuprenorphine Norbuprenorphine Norbuprenorphine Norbuprenorphine Norbuprenorphine Cocaine (COC100)	400 100 2,500 10 15 20	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene	>100,000 25 12,500 300
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine	400 100 2,500 10 15 20 200 100 250	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin	>100,000 25 12,500 300 300 1,000 1,000
Norchiordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaethylene	400 100 2,500 10 15 20 200 100 250 4,000	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine	>100,000 25 12,500 300 300 1,000 1,000 3,000
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaethylene Ecgonine	400 100 2,500 10 15 20 200 100 250	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Trimipramine Amitriptyline Amitriptyline	>100,000 25 12,500 300 300 1,000 1,000 3,000 1,500
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine	400 100 2,500 10 15 20 200 100 250 4,000	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine	>100,000 25 12,500 300 300 1,000 1,000 3,000
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaethylene Ecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 150 375	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine	>100,000  25 12,500  300 300 1,000 1,000 3,000 1,500 1,500 400
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaethylene Ecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Cocaine (COC150) Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine	>100,000  25 12,500  300 300 1,000 1,000 1,500 1,500 400 12,500
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine Cocaine Cocaine (COC150) Benzoylecgonine Cocaine COC150 Benzoylecgonine Cocaine COC150 Benzoylecgonine Cocaine COC150 Benzoylecgonine Cocaine COC150 Benzoylecgonine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline (TCA) Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine Doxepin	>100,000 25 12,500 300 300 1,000 1,000 3,000 1,500 1,500 200 400 12,500 2,000
Norchiordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaethylene Ecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine Cocaethylene Ecgonine Cocaine Cocaethylene Ecgonine Cocaethylene Ecgonine Cocaethylene	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine	>100,000  25 12,500  300 300 1,000 1,000 1,500 1,500 400 12,500
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine Cocaine (COC100) Benzoylecgonine Cocaethylene Ecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine Cocaine (COC300)	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25)	>100,000  25 12,500  300 300 1,000 1,000 3,000 1,500 1,500 200 400 12,500 2,000 2,000 25,000
Norchiordiazepoxide Nordiazepam Temazepam Tiemazepam Buprenorphine (BUP) Buprenorphine Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylegonine Cocaine Cocaine (COC150) Benzoylegonine Cocaine (COC150) Benzoylegonine Cocaine (COC150) Benzoylegonine Cocaine (COC150) Benzoylegonine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine lmipramine Clomipramine Clomipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH	>100,000  25 12,500  300 300 1,000 1,000 3,000 1,500 1,500 200 400 12,500 2,000 25,000
Norchiordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylegonine Cocaine (COC150) Benzoylegonine Cocaine Cocaine (COC300) Benzoylegonine Cocaine (COC300) Benzoylegonine Cocaine (COC300) Benzoylegonine Cocaine (COC300) Benzoylegonine Cocaine Cocaine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine limipramine Clomipramine Clomipramine Doxepin Maprotiline Promethazine Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH	>100,000  25 12,500  300 300 1,000 1,000 3,000 1,500 1,500 200 400 12,500 2,000 2,000 25,000
Norchlordiazepoxide Nordiazepam Temazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine Cocaine (COC100) Benzoylecgonine Cocaine Cocaethylene Ecgonine Cocaine (COC150) Benzoylecgonine Cocaine Cocaethylene Ecgonine Norcocaine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH 11-hydroxy-Δ9-Tetrahydrocannabinol	>100,000  25 12,500  300 300 1,000 1,000 1,500 1,500 200 400 12,500 2,000 25,000 25 15 1,250
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine -3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaethylene Ecgonine Cocaethylene Ecgonine Cocaethylene Ecgonine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine limipramine Clomipramine Clomipramine Doxepin Maprotiline Promethazine Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH	>100,000  25 12,500  300 300 1,000 1,000 3,000 1,500 1,500 200 400 12,500 2,000 2,000 25,000
Norchiordiazepoxide Nordiazepam Temazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylegonine Cocaine Cocaine Cocaine (COC150) Benzoylegonine Cocaine (COC150) Benzoylegonine Cocaine (COC300) Benzoylegonine Cocaine Coctinine EDDP100	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500 32,000	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Mortriptyline (TCA) Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Comipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH 11-nor-Δ8-THC-9-COOH	>100,000  25 12,500  300 300  1,000 1,000 1,500 1,500 1,500 2,000 2,000 25,000 25 15 1,250 3,750
Norchiordiazepoxide Nordiazepam Temazepam Tiemazepam Tiriazolam Buprenorphine (BUP) Buprenorphine Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500 32,000	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-hydroxy-Δ9-Tetrahydrocannabinol Δ8-Tetrahydrocannabinol	>100,000  25 12,500 300 300 1,000 1,000 3,000 1,500 1,500 200 400 12,500 2,000 25,000 25 15 15 1,250 3,750 5,000
Norchlordiazepoxide Nordiazepam Temazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine Norbuprenorphine -3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine Cocaine (COC300) Benzoylecgonine Cocaine Cocaine (COC300) Cocaine (COC300) Cocaine (COC300) Cocaine (COC300) Cocaine (COC300) Cocaine (COC300) Cocaine Co	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 12,500 32,000 200	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH 11-hydroxy-Δ9-Tetrahydrocannabinol Δ8-Tetrahydrocannabinol Cannabinoid Cannabinoid Cannabidiol	>100,000  25 12,500  300 300  1,000 1,000 1,500 1,500 1,500 200 400 12,500 2,000 25,000 25 15 1,250 3,750 5,000 50,000
Norchiordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine (Buprenorphine (Bupr	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500 32,000	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Mortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Comipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH 11-nydroxy-Δ9-Tetrahydrocannabinol Δ8-Tetrahydrocannabinol Cannabinol Cannabinol	>100,000  25 12,500  300 300  1,000 1,000 1,500 1,500 1,500 200 400 12,500 2,000 25,000 25 15 1,250 3,750 5,000 50,000
Norchiordiazepoxide Nordiazepam Temazepam Tiemazepam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine (Buprenorphine (Bup	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500 32,000 100 100 100 100 100 100 100	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine Clomipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH 11-nor-Δ9-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-nor-Δ9-Tatrahydrocannabinol Δ9-Tetrahydrocannabinol Cannabinoid Cannabinoids (THC40)	>100,000  25 12,500  300 300  1,000 1,000 1,500 1,500 1,500 2,000 2,000 25,000  25 15 1,250 3,750 5,000 50,000
Norchiordiazepoxide Nordiazepam Temazepam Tiemazepam Tiriazolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine 3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine (COC100) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine Cocaine Cocaine Cocaine Cocaine (COC300) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine Cothinine (COT) Cothinine EDDP100 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine Methadone EMDP EDDP300 2-ethylidene-1,5-dimethyl-3,3-	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500 32,000 100 100 100 100 100 100 100	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Comipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH	>100,000  25 12,500  300 300  1,000 1,000 1,500 1,500 1,500 2,000 2,000 25,000  25 15 1,250 3,750 5,000 50,000 40 40 20
Norchlordiazepoxide Nordiazepam Temazepam Temazepam Tinizolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine -3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine Cocain	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 200 100 100 100 100 100 100	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Mortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Comipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ8-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-hydroxy-Δ9-Tetrahydrocannabinol Cannabinoid Cannabinoid Cannabinoids (THC40) 11-nor-Δ8-THC-9-COOH	>100,000  25 12,500  300 300 1,000 1,000 1,500 1,500 1,500 2,000 2,000 25,000 25,000 25 15 1,250 3,750 5,000 50,000 40 20 2,000
Norchlordiazepoxide Nordiazepam Temazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine -3-D-Glucuronide Norbuprenorphine -3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaethylene Ecgonine Cocaethylene Ecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine Coca	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500 32,000 100,000 10	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Clomipramine Clomipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH	>100,000  25 12,500  300 300  1,000 1,000 1,500 1,500 1,500 2,000 2,000 25,000  25 15 1,250 3,750 5,000 50,000 40 40 20
Norchlordiazepoxide Nordiazepam Temazepam Triazolam Buprenorphine (BUP) Buprenorphine (BUP) Buprenorphine -3-D-Glucuronide Norbuprenorphine -3-D-Glucuronide Norbuprenorphine -3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine Cotinine Cotinine EDDP100 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine Methadone EMDP EDDP300 2-ethylidene-1,5-dimethyl-3,3-	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 200 100 100 100 100 100 100	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene Mortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine Imipramine Comipramine Comipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ8-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-hydroxy-Δ9-Tetrahydrocannabinol Cannabinoid Cannabinoid Cannabinoids (THC40) 11-nor-Δ8-THC-9-COOH	>100,000  25 12,500 300 300 1,000 1,000 3,000 1,500 1,500 200 400 12,500 2,000 25,000 25 15 15 1,250 3,750 5,000 50,000 50,000 40 20 2,000 2,000 2,000
Norchlordiazepoxide Nordiazepam Temazepam Temazepam Tiriazolam Buprenorphine (BUP) Buprenorphine Buprenorphine -3-D-Glucuronide Norbuprenorphine Norbuprenorphine -3-D-Glucuronide Cocaine (COC100) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC150) Benzoylecgonine Cocaine (COC300) Benzoylecgonine Cocaine	400 100 2,500 10 15 20 200 100 250 4,000 10,000 150 375 6,250 16,000 50,000 300 750 12,500 32,000 100,000 10	Buprenorphine Ethylmorphine Phencyclidine (PCP) Phencyclidine 4-Hydroxyphencyclidine Propoxyphene (PPX) d-Propoxyphene d-Norpropoxyphene d-Norpropoxyphene Nortriptyline (TCA) Nortriptyline Nordoxepin Trimipramine Amitriptyline Promazine Desipramine lmipramine Clomipramine Clomipramine Doxepin Maprotiline Promethazine Cannabinoids (THC25) 11-nor-Δ9-THC-9-COOH 11-nor-Δ8-THC-9-COOH 11-hydroxy-Δ9-Tetrahydrocannabinol Δ9-Tetrahydrocannabinol Cannabinoids (THC40) 11-nor-Δ9-THC-9-COOH 11-nor-Δ9-THC-9-COOH 11-nor-Δ9-THC-9-COOH 11-nor-Δ9-THC-9-COOH 11-nor-Δ9-THC-9-COOH 11-nor-Δ9-THC-9-COOH 11-nor-Δ9-THC-9-COOH	>100,000  25 12,500 300 300 1,000 1,000 1,500 1,500 1,500 200 400 12,500 2,000 2,000 25,000 25,000 50,000 50,000 40 20 2,000

Ethyl Glucuronide	500	Tramadol11-nor-Δ9-THC-9-COOH	50
Fentanyl (FTY20)		11-nor-Δ8-THC-9-COOH	30
Norfentanyl	20	11-hydroxy-∆9-Tetrahydrocannabinol	2,500
Fentanyl	200	Δ8-Tetrahydrocannabinol	7,500
Fentanyl (FTY100)		Δ9-Tetrahydrocannabinol	10,000
Fentanyl	100	Cannabinol	100,000
Norfentanyl	>100,000	Cannabidiol	100,000
Kratom (KRA)		Tramadol (TRA100)	
Mitragynine	300	Tramadol	100
7-Hydroxymitragynine	600	Tramadol (TRA200)	
Synthetic Cannabinoids (K2)		Tramadol	200
JWH-018 Pentanoic Acid	50	Tramadol (TRA1000)	
JWH-073 Butanoic Acid	50	Tramadol	1,000
JWH-018 N-4-hydroxypentyl	2,000		
JWH-018 (Spice Cannabinoid)	1,000		
JWH-018 4-Hydroxypentyl metabolite- D5 (indole-D5)	1,000		
JWH-073 (Spice Cannabinoid)	2,000		
JWH-073 3-Hydroxybutyl metabolite	1,000		
JWH-073 3-Hydroxybutyl metabolite-D5 (indole-D5)	1,000		
JWH-019 6-hydroxypentyl	1,000		
JWH-122 N-4-hydroxypentyl	2,000		
JWH-210 5-Hydroxypentyl metabolite	5,000		
AM2201 4-Hydroxypentyl metabolite	1,000		
Ketamine (KET300)			
Ketamine	300		
Methadone	15,000		
Pethidine	3,750		
Methylamphetamine	3,750		
Methoxyphenamine	3,750		
Promethazine	7,500		
Phencyclidine	7,500		

## **Effect of Urinary Specific Gravity**

The results demonstrate that the urinary specific gravity range of 1.000~1.035 does not affect the test results.

### Effect of Urinary pH

The results demonstrate that the range of urinary pH from 4 to 9 does not interfere with the performance of test. Made in China

### Interfering Substances

Urine specimens may contain substances that could potentially interfere with the test. The following compounds were added to drug-free urine, urine with a drug concentration 25% below the cutoff, and urine with a drug concentration 25% above the cutoff for the corresponding drug test. All potential interferents were added at a concentration of 100 µg/mL. None of the urine samples tested showed any deviation from the expected results.

Acetaminophen	Digoxin	DL-Propranolol
Acetophenetidin	Estrogen	DL-Tyrosine
Acetylsalicylic Acid	Fenoprofen	D-Pseudoephedrine
Aminopyrine	Furosemide	Noscapine
Amoxicillin	Gentisic Acid	O-Hydroxyhippuric Acid
Ampicillin	Hydrochlorothiazide	Omeprazole
Apomorphine	3-Hydroxytyramine	Oxalic Acid
Aspartame	Hydrocortisone	Oxolinic Acid
Aspirin	Isoxsuprine	Oxymetazoline
Atropine	Ketoprofen	Papaverine
Diphenhydramine	Labetalol	Penicillin V Potassium
Benzilic Acid	Lamotrigine	Penicillin-G
Benzoic Acid	Levonorgestrel	Perphenazine
Bilirubin	Meperidine	Pethidine HCI
Captopril	Meprobamate	Phenelzine
Chloralhydrate	Nalidixic Acid	Prednisone
Chloramphenicol	Naproxen	Propranolol HCI
Chlorothiazide	Niacinamide	Quinine
Chlorpromazine	Nifedipine	Ranitidine
Chloroquine	Nitroglycerin	Ranitidine HCI
Cholesterol	Norethindrone	Salicylic Acid
Clarithromycin	5- Hydroxytyramine	Triamterene
Clonidine	Sulfamethazine Sulindac	Uric Acid
Cotinine	Tetrahydrozoline	Venlafaxine HCI
Cortisone	Thiamine	Verapamil
Deoxycorticosterone	Thioridazine	Sertraline
Dextromethorphan	Diphenhydramine	Zomepirac
Diclofenac	D,L-Octopamine	•
Diflunisal	•	

## ALCOHOL TEST:

# Sensitivity

It is designed for detection of alcohol in urine at the detection sensitivity of 40 mg/dL (0.04 g/dL)

The following substances were added to samples which had alcohol levels of 0 and 0.08%. None of the substances at the concentrations tested interfered in the Alcohol Tests.

20 mg/dL 20 mg/dL Acetaminophen Caffeine Glucose 2,000 mg/dL Hemoglobin 1 mg/dL 2,000 mg/dL Human Serum Protein

The following substances may interfere with the Alcohol Test:

Strong oxidizers Tannic acid Ascorbic acid Polyphenolic compounds Mercaptans Uric acid Oxalic acid Bilirubin

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

## ASSISTANCE

If you have any question regarding to the use of this product, please call our Toll Free Number 1-215-245-4477 (9:30 a.m. to 5:00 p.m. CDT M-F).

## BIBLIOGRAPHY OF SUGGESTED READING

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Ellenhorn, M.J. and Barceloux, D. G Medical Toxicology. Elservier Science Publishing Company, Inc., New York, 1988

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Spring – Verlag, 1977.
Harvey, R.A., Champe, P.C. Lippincotts Illustrated Reviews. Pharmacology. 91-95, 1992.

Hawwiss RL, CN Chiang. Urine Testing for drugs of Abuse. National Institute for Drug Abuse (NIDA), Research Monography 73, 1986

 $Hofmann\ F.E., A\ Handbook\ on\ Drug\ and\ Alcohol\ Abuse:\ The\ Biomedical\ Aspects,\ New\ York,\ Oxford\ University$ Press, 1983.

McBay, A. J. Drug-analysis technology--pitfalls and problems of drug testing. Clin. Chem. 33,33B-40B, 1987.

## ADDITIONAL INFORMATION AND RESOURCES

The following list of organizations may be helpful to you for counseling support and resources. These groups

also have an Internet address which can be accessed for additional information.

National Clearinghouse for Alcohol and Drug Information www.health.org 1-800-729-6686

Center for Substance Abuse Treatment www.health.org 1-800-662-HELP

The National Council on Alcoholism and Drug Dependence www.ncadd.org 1-800-NCA-CALL American Council for Drug Education (ACDE) www.acde.org 1-800-488-DRUG

## INDEX OF SYMBOLS

Keep away from sunlight



Store between 4°C - 30°C (39°F - 86°F)



Keep dry



Do not re-use

Manufactured for Medimpex United Inc.

Rel.: 2023/11/16