

## **Multi-Drug Rapid Test Cup with Adulteration** (Urine)

Package Insert

Instruction Sheet for testing of any combination of the following drugs: ACE/AMP/BAR/BZO/BUP/COC/THC/MTD/MET/MDMA/MOP/MQL/OPI/PCP/PPX/TCA/TML/KET/OXY/COT/E DDP/FYL/K2/6-MAM/MDA/ETG/CLO/LSD/MPD/ZOL/ZOP/MCAT/ALC/7-ACL/CFYL/CAF/CAT/TRO/DIA/MDP

VIMEP/ALP
Including Specimen Validity Tests (S.V.T.) for:
Oxidants/PCC, Specific Gravity, pH, Nitrite, Glutaraldehyde, Creatinine and Bleach
A rapid test for the simultaneous, qualitative detection of multiple drugs and drug metabolites in human urine.
For healthcare professionals including professionals at point of care sites. Immunoassay for in vitro diagnostic INTENDED USE

Test	following cut-off concentrations:  Calibrator	Cut-off (ng/ml
Acetaminophen (ACE 5,000)	Acetaminophen	5,000
Amphetamine (AMP1,000)	d-Amphetamine	1,000
Amphetamine (AMP 500)	d-Amphetamine	500
Amphetamine (AMP 300)	d-Amphetamine	300
Barbiturates (BAR 300)	Secobarbital	300
Barbiturates (BAR 200)	Secobarbital	200
Benzodiazepines (BZO 500)	Oxazepam	500
Benzodiazepines (BZO 300)	Oxazepam	300
Benzodiazepines (BZO 200)	Oxazepam	200
Benzodiazepines (BZO 100)	Oxazepam	100
Suprenorphine (BUP 10)	Buprenorphine	10
Buprenorphine (BUP 5)	Buprenorphine	5
Cocaine (COC 300)	Benzoylecgonine	300
Cocaine (COC 200)	Benzoylecgonine	200
Cocaine (COC 150)	Benzoylecgonine	150
Cocaine (COC 100)	Benzoylecgonine	100
Marijuana (THC150)	11-nor-Δ9-THC-9 COOH	150
Marijuana (THC 50)	11-nor-Δ9-THC-9 COOH	50
Marijuana (THC 25)	11-nor-Δ9-THC-9 COOH	25
Methadone (MTD 300)	Methadone	300
Methadone (MTD 200)	Methadone	200
lethamphetamine (MET 1,000)	d-Methamphetamine	1,000
Methamphetamine (MET 500)	d-Methamphetamine	500
Methamphetamine (MET 300)	d-Methamphetamine	300
Methylenedioxymethamphetamine MDMA 300)	d,I-Methylenedioxymethamphetamine	300
Methylenedioxymethamphetamine MDMA 500)  Methylenedioxymethamphetamine	d,I-Methylenedioxymethamphetamine	500
Methylenedioxymethamphetamine MDMA 1,000)	d,I-Methylenedioxymethamphetamine	1,000
Morphine (MOP 300)	Morphine	
Morphine (MOP 100) Methaqualone(MQL)	Morphine Methaqualone	100 300
piate (OPI 2,000)		2,000
	Morphine Dhana cliding	25
rhencyclidine (PCP) Propoxyphene (PPX)	Phencyclidine Propovijehono	300
ricyclic Antidepressants (TCA)	Propoxyphene Nortriptyline	1,000
ramadol (TML 100)		100
	Cis-Tramadol Cis-Tramadol	200
ramadol (TML 200)		
ramadol (TML 300)	Cis-Tramadol	300
(etamine (KET 1,000)	Ketamine	1,000
(etamine (KET 500)	Ketamine	500
(etamine (KET 300) (etamine (KET100)	Ketamine	300 100
Oxycodone (OXY)	Ketamine	100
	Oxycodone	
Cotinine(COT200) Cotinine(COT100)	Cotinine Cotinine	200 100
ethylidene-1,5-dimethyl-	2-ethylidene-1,5-dimethyl-	100
,3-diphenylpyrrolidine (EDDP300)	3,3-diphenylpyrrolidine	300
ethylidene-1,5-dimethyl-	2-ethylidene-1,5-dimethyl-	+
,3-diphenylpyrrolidine (EDDP100)	3,3-diphenylpyrrolidine	100
entanyl(FYL20)	Norfentanyl	20
entanyl(FYL10)	Norfentanyl	10
ynthetic Marijuana (K2-50)	JWH-018、JWH-073	50
Synthetic Marijuana (K2-30)	JWH-018、JWH-073	30
-mono-aceto-morphine	<u> </u>	
-mono-aceto-morphine 6-MAM10)	6-MAM	10
±) 3,4-Methylenedioxy-	(±) 3,4-Methylenedioxy-	1
mphetamine(MDA500)	Amphetamine	500
thyl- β-D-Glucuronide(ETG500)	Ethyl- β -D-Glucuronide	500
thyl- β-D-Glucuronide(ETG1,000)	Ethyl- β -D-Glucuronide	1,000
lonazepam(CLO 400)	Clonazepam	400
lonazepam(CLO 150)	Clonazepam	150
ysergic Acid Diethylamide (LSD)	Lysergic Acid Diethylamide	20
ysergic Acid Diethylamide (LSD)	Lysergic Acid Diethylamide	50
Methylphenidate (MPD)	Methylphenidate	300
Colpidem(ZOL)	Zolpidem	50
opiclone (ZOP 50)	Zopiclone	50
Methcathinone (MCAT 500)	S(-)-Methcathinone	500
-Aminoclonazepam(7-ACL300)	7-Aminoclonazepam	300
-Aminoclonazepam(7-ACL200)	7-Aminoclonazepam	200
-Aminoclonazepam(7-ACL100)	7-Aminoclonazepam	100
Carfentanyl(CFYL500)	Carfentanyl	500
Caffeine(CAF)	Caffeine	1000
Cathine (CAT)	(+)-Norpseudoephedrine	150
ropicamide(TRO)	Tropicamide	350
i, 4-methylenedioxypyrovalerone MDPV)	3, 4-methylenedioxypyrovalerone	1000
Diazepam(DIA 300)	Diazepam	300
Diazepam(DIA 200)	Diazepam	200
Mephedrone(MEP)	Mephedrone	100
Iprazolam(ALP)	Alprazolam	100
est	Calibrator	Cut-off
· · ·	Alcohol	0.02%

Configurations of the Multi-Drug Rapid Test Cup come with any combination of the above listed drug analytes with or without S.V.T. This assay provides only a preliminary analytical test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated. SUMMARY

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

## Acetaminophen (ACE)

Acetaminophen (ACE)

Acetaminophen is one of the most commonly used drugs, yet it is also an important cause of serious liver injury. Acetaminophen is one of the generic name of a drug found in many common brand name over-the-counter (OTC) products, such as Tylenol, and Prescription (Rx) products, such as Vicodin and Percocet. Acetaminophen is an important drug, and its effectiveness in relieving pain and fever is widely known. Unlike other commonly used drugs to reduce pain and fever (e.g., non steroidalant inflammatory drugs (NSAIDs), such as aspirin, ibuprofen, and naproxen), at recommended doses acetaminophen does not cause adverse effects, such as stomach discomfort and bleeding, and acetaminophen is considered safe when used according to the directions on its OTC or Rx labeling. However, taking more than the recommended amount can cause liver damage, ranging from abnormalities in liver function blood tests, to acute liver failure, and even death. Many sees of overdose are caused by patients inadvertently taking more than the recommended dose (i.e., 4 grams a day) of a particular product, or by taking more than one product containing acetaminophen (e.g., an OTC product and an Rx drug containing acetaminophen). The mechanism of liver injury is not related to acetaminophen itself, but to

the production of a toxic metabolite. The toxic metabolite binds with liver proteins, which cause cellular injury. The ability of the liver to remove this metabolite before it binds to liver protein influences the extent of liver

injury. The Multi-Drug Rapid Test Cup yields a positive result when the concentration of Acetaminophen in urine

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

Barbiturates (BAR)

Barbiturates (BAR)
Barbiturates are CNS depressants. They are used therapeutically as sedatives, hypnotics, and anticonvulsants barbiturates are almost always taken orally as capsules or tablets. The effects resemble those of intoxication with alcohol. Chronic use of barbiturates leads to tolerance and physical dependence. Short-acting barbiturates taken at 400 mg/day for 2-3 months can produce a clinically significant degree of physical dependence. Withdrawal symptoms experienced during periods of drug abstinence can be severe

enough to cause death.

enough to cause death.

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

The approximate detection time limits for barbiturates are:

Short acting (e.g. Secobarbital)

Long acting (e.g. Phenobarbital)

400 mg PO (oral)

7 days²

The Multi-Drug Rapid Test Cup yields a positive result when the concentration of barbiturates in urine exceeds detective level.

### Benzodiazepines (BZO)

Benzodiazepines are medications that are frequently prescribed for the symptomatic treatment of anxiety and sleep disorders. They produce their effects via specific receptors involving a neurochemical called gamma aminobutyric acid (GABA). Because they are safer and more effective, benzodiazepines have replaced barbiturates in the treatment of both anxiety and insomnia. Benzodiazepines are also used as sedatives before some surgical and medical procedures, and for the treatment of seizure disorders and alcohol withdrawal. Risk of physical dependence increases if benzodiazepines are taken regularly (e.g., daily) for more than a few parts the procedures of the procedure of the pr

months, especially at higher than normal doses. Stopping abruptly can bring on such symptoms as trouble sleeping, gastrointestinal upset, feeling unwell, loss of appetite, sweating, trembling, weakness, anxiety and changes in perception.

Only trace amounts (less than 1%) of most benzodiazepines are excreted unaltered in the urine; most of the concentration in urine is conjugated drug. The detection period for benzodiazepines in urine is 3-7 days. The Multi-Drug Rapid Test Cup yields a positive result when the concentration of benzodiazepines in urine exceeds detective level.

Buprenorphine (BUP)
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™, which contain Buprenorphine HCl alone or in combination with Naloxone HCl. Therapeutically, Buprenorphine is used as a substitution treatment for opioid addicts. Substitution treatment is a form of medical care offered to opiate addicts (primarily heroin addicts) based on a similar or identical substance to the drug normally used. In substitution therapy, Buprenorphine is as effective as Methadone but demonstrates a lower level of physical dependence. Concentrations of free Buprenorphine and Norbuprenorphine in urine may be less than 1 ng/ml after therapeutic administration, but can range up to 20 ng/ml in abuse situations. The plasma half life of Buprenorphine is 2-4 hours. While complete elimination of a single dose of the drug can take as long as 6 days, the window of detection for the parent drug in urine is thought to be approximately 3 days.

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

The Multi-Drug Rapid Test Cup yields a positive result when the Buprenorphine in urine exceeds detective level.

Cocaine (COC)

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

energy and restlessness while gradually resulting in tremors, over-sensitivity and spasms. In large amounts, cocaine causes fever, unresponsiveness, difficulty in breathing and unconsciousness.

Cocaine is often self-administered by nasal inhalation, intravenous injection and free-base smoking. It is excreted in the urine in a short time primarily as benzoylecgonine. <sup>3,4</sup>Benzoylecgonine, a major metabolite of cocaine, has a longer biological half-life (5-8 hours) than cocaine (0.5-1.5 hours), and can generally be detected for 24-48 hours after cocaine exposure.4
The Multi-Drug Rapid Test Cup yields a positive result when the concentration of benzoylecgonine in urine

marjuana (THC)
THC (A9-tetrahydrocannabinol) is the primary active ingredient in cannabis (marijuana). When smoked or orally administered, THC produces euphoric effects. Users have impaired short-term memory and slowed learning. They may also experience transient episodes of confusion and anxiety. Long-term, relatively heavy use may be associated with behavioral disorders. The peak effect of marijuana administered by smoking occurs in 20-30 minutes and the duration is 90-120 minutes after one cigarette. Elevated levels of urinary metabolities are found within hours of exposure and remain detectable for 3-10 days after smoking. The main metabolite excreted in the urine is 11-nor-A9-tetrahydrocannabinol-9-carboxylic acid (THC-COOH).
The Multi-Drug Rapid Test Cup yields a positive result when the concentration of THC-COOH in urine exceeds detective level.

## Methadone (MTD)

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

methadone. Methadone is a long acting pain reliever producing effects that last from twelve to forty-eight hours. Ideally, methadone frees the client from the pressures of obtaining illegal heroin, from the dangers of injection, and from the emotional roller coaster that most opiates produce. Methadone, if taken for long periods and at large doses, can lead to a very long withdrawal period. The withdrawals from methadone are more prolonged and troublesome than those provoked by heroin cessation, yet the substitution and phased removal of methadone is an acceptable method of detoxification for patients and therapists. The Multi-Drug Rapid Test Cup yields a positive result when the concentration of methadone in urine exceeds detective level.

Methamphetamine (MET)

Methamphetamine (MET)

Methamphetamine is an addictive stimulant drug that strongly activates certain systems in the brain. Methamphetamine is closely related chemically to Amphetamine, but the central nervous system effects of Methamphetamine are greater. Methamphetamine is made in illegal laboratories and has a high potential for abuse and dependence. The drug can be taken orally, injected, or inhaled. Acute higher doses lead to enhanced stimulation of the central nervous system and induce euphoria, alertness, reduced appetite, and a sense of increased energy and power. Cardiovascular responses to Methamphetamine include increased blood pressure

increased energy and power. Cardiovascular responses to Methamphetamine include increased blood pressure and cardiac arrhythmias. More acute responses produce anxiety, paranoia, hallucinations, psychotic behavior, and eventually, depression and exhaustion.

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

The Multi-Drug Rapid Test Cup is a rapid urine screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of Methamphetamine using the provided and provided

urine. The Multi-Drug Rapid Test Cup yields a positive result when the Methamphetamine in urine exceeds

detective level.

Methylenedioxymethamphetamine (MDMA)

Methylenedioxymethamphetamine (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 users. Its interchainsh of action is thought to be via release of the reductarismitted sertotomis. More 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.

The Multi-Drug Rapid Test Cup yields a positive result when the concentration of Methylenedioxymethamphetamine in urine exceeds detective level.

Morphine (MOP)

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

Opioid analgesics comprise a large group of substances which control pain by depressing the CNS. Large doses of morphine can produce higher tolerance levels, physiological dependency in users, and may lead to substance abuse. Morphine is excreted unmetabolized, and is also the major metabolic product of codeine and

heroin. Morphine is detectable in the urine for several days after an opiate dose. <sup>2</sup> The Multi-Drug Rapid Test Cup yields a positive result when the concentration of morphine in urine exceeds

### Morphine/Opiate (OPI)

Morphine/Opiate (OPI)
The Multi-Drug Rapid Test Cup yields a positive result when the concentration of morphine in urine exceeds 2,000 ng/mL. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA).1 See morphine (MOP 300) for summary.

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

The Multi-Drug Rapid Test Cup yields a positive result when the concentration of Methaqualone in urine exceeds 300ng/mL.

Phencyclidine (PCP)

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

anesthetic in the 1950's. It was removed from the market because patients receiving it became delirious and experienced hallucinations.

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

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

The Multi-Drug Rapid Test Cup yields a positive result when the concentration of phencyclidine in urine exceeds.

25 ng/mL. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA). 1

Mental Health Services Administration (SAMHSA, USA).¹

Propoxyphene (PPX)

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

In humans, propoxyphene is metabolized by N-demethylation to yield norpropoxyphene. Norpropoxyphene has a longer fall-life (30 to 36 hours) than parent propoxyphene (6 to 12 hours). The accumulation of

influintials, pilopoxylinetie is inetabolized by N-definitional of the Indian Market Northern specimens.
Tricyclic Antidepressants (TCA)

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

for up to ten days.

The Multi-Drug Rapid Test Cup yields a positive result when the concentration of tricyclic antidepressants in urine exceeds 1,000 ng/mL. At present, the Substance Abuse and Mental Health Services Administration (SAMHSA) does not have a recommended screening cut-off for tricyclic antidepressant positive specimens.

(SAMINSA) does not have a recommended screening cut-on for incyclic antidepressant positive specimens. Tramadol(TML) is a quasi-narcotic analgesic used in the treatment of moderate to severe pain. It is a synthetic analog of codeline, but has a low binding affinity to the mu-opioid receptors. Large doses of tramadol can develop tolerance and physiological dependency and lead to its abuse. Tramadol is extensively metabolized after oral administration. Approximately 30% of the dose is excreted in the urine as unchanged drug, whereas 60% is excreted as metabolites. The major pathways appear to be N- and O- demethylation, glucoronidation or sulfation in the liver

The Multi-Drug Rapid Test Cup is a rapid urine screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of Tramadol in urine. The Multi-Drug Rapid Test Cup yields a positive result when Tramadol in urine exceed detective level.

The Multi-Drug Rapid Test Cup yields a positive result when Tramadol in urine exceed detective level. 
Ketamine(KET)
Ketamine is a dissociative anesthetic developed in 1963 to replace PCP (Phencyclidine). While Ketamine is still used in human anesthesia and veterinary medicine, it is becoming increasingly abused as a street drug. Ketamine is molecularly similar to PCP and thus creates similar effects including numbness, loss of coordination, sense of invulnerability, muscle rigidity, aggressive / violent behavior, slurred or blocked speech, exaggerated sense of strength, and a blank stare. There is depression of respiratory function but not of the central nervous system, and cardiovascular function is maintained. The effects of Ketamine generally last 4-6 hours following use. Ketamine is excreted in the urine as unchanged drug (2.3%) and metabolites (96.8%). The Multi-Drug Rapid Test Cup is a rapid urine screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of Ketamine in urine. The Multi-Drug Rapid Test Cup yields a positive result when Ketamine in urine exceeds detective level. Oxycodone (OXY)
Oxycodone is a semi-synthetic opioid with a structural similarity to codeine. The drug is manufactured by modifying thebaine, an alkaloid found in the opium poppy. Oxycodone, like all opiate agonists, provides pain relief by acting on opioid receptors in the spinal cord, brain, and possibly directly in the affected tissues. Oxycodone is prescribed for the relief of moderate to high pain under the well-known pharmaceutical trade names of OxyContine, Tylox®, Percodan® and Percocet®. While Tylox®, Percodan® and Percocet® under the vell-known pharmaceutical trade names of OxyContine oxymorphone and noroxycodone. In a 24-hour urine, 33-61% of a single, 5 mg oral dose is excreted with the primary constituents being unchanged drug (13-19%), conjugated drug (7-29%) and conjugated oxymorphone (13-14%). The window of detection for Oxyco

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

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, it's elimination profile is more stable than that of nicotine which is largely urine pH dependent. As a result, cotinine is considered a good biological marker for determining nicotine use. The plasma half-life of nicotine is approximately 60 minutes following inhalation or parenteral administration." 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.

parenterial administration. According an obtained are applying eliminated by the stanley, the window of detection for cottinine in urine at a cutoff level of 200 ng/mL is expected to be up to 2-3 days after nicotine use. The Multi-Drug Rapid Test Cup yields a positive result when the concentration of Cotinine in urine exceeds detective level.

detective level.

2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)

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

The Multi-Drug Rapid Test Cup yields a positive result when the concentration of EDDP in urine exceeds detective level.

Fentanyl, belongs to powerful narcotics analgesics, and is a u special opiates receptor stimulant. Fentanyl is one of the varieties that been listed in management of United Nations "Single Convention of narcotic drug in 1961".

Among the opiates agents that under international control, fentanyl is one of the most commonly used to cure moderate to severe pain. After continuous injection of fentanyl, the sufferer will have the performance of protracted opioid abstinence syndrome, such as ataxia and irritability etc2,3, which presents the addiction after taking fentanyl in a long time. Compared with drug addicts of amphetamine, drug addicts who take fentanyl mainly have got the possibility of higher infection rate of HIV, more dangerous injection behavior and more lifelong medication overdose 4.

The FYL Rapid Test Dipstick (Urine) is a rapid urine screening test that can be performed without the use of an

instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of FYL in urine. The FYL Rapid Test Dipstick (Urine) yields a positive result when FYL in urine exceeds detective level.

Synthetic Marijuana (K2)

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

those with a family history of mental illness.

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

The Multi-Drug Rapid Test Cup yields a positive result when the synthetic marijuana metabolite in urine exceeds detective level.

detective level.

6-mono-aceto-morphine (6-MAM)

6-Monoacetylmorphine (6-MAM) or 6-acetylmorphine (6-AM) is one of three active metabolites of heroin (diacetylmorphine), the others being morphine and the much less active 3-monoacetylmorphine (3-MAM).

6-MAM is rapidly created from heroin in the body, and then is either metabolized into morphine or excreted in the urine.

6-MAM remains in the urine for no more than 24 hours. So a urine specimen must be collected soon after the last heroin use, but the presence of 6-MAM guarantees that heroin was in fact used as recently as within the last day.

6-MAM is naturally found in the brain, but in such small quantities that detection of this compound in urine virtually quarantees that heroin has recently been consumed.

the last heroin use, but the presence of 6-MAM guarantees that heroin was in fact used as recently as within the last day. 6-MAM is naturally found in the brain, but in such small quantities that detection of this compound in urine virtually guarantees that heroin has recently been consumed.

The 6-MAM Rapid Test Cassette is a rapid urine screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of 6-MAM in urine. The 6-MAM Rapid Test Cassette yields a positive result when 6-MAM in urine reaches 10ng/ml. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA).

(a) 3, 4-Methylenedioxyamphetamine (MDA), also known as tenamfetamine (INN), or with the street name "Sally" or "Sass" or "Sass-a-frass", is a psychedelic and entactogenic drug of the phenethylamine and amphetamine chemical classes. It is mainly used as a recreational drug, an entheogen, and a tool in use to supplement various types of practices for transcendence, including in meditation, psychonautics, and as an agent in psychedelic psychotherapy. It was first synthesized by G. Mannish and W. Jacobson in 1910. There are about 20 different synthetic routes described in the literature for its preparation.

Ethyl-PD-Glucuronide(ETG)

Ethyl Glucuronide (ETG) is a metabolite of ethyl alcohol which is formed in the body by glucuronidation following exposure to ethanol, such as by drinking alcoholic beverages. It is used as a biomarker to test for ethanol use and to monitor alcohol abstinence in situations where drinking is prohibited, such as in the military, in professional monitoring programs(health professionals, attorneys, airline pilots in recovery from addictions), in liver transplant clinics, or in recovering alcoholic patients. ETG can be measured in urine up to approximately 80 hours after ethanol is ingested. ETG is a more accurate indicator of the recent exposure to alco

exceeds detective level

### Clonazepam(CLO)

Clonazepam(CLO)
Clonazepam is a benzodiazepine drug having anxiolytic, anticonvulsant, muscle relaxant, amnestic, sedative, and hypnotic properties. Clonazepam has an intermediate onset of action, with a peak blood level occurring one to four hours after oral administration. Long-term effects of benzodiazepines include tolerance, benzodiazepine dependence, and benzodiazepine withdrawal syndrome, which occurs in one third of patients treated with clonazepam for longer than four weeks. Benzodiazepines such as clonazepam have a fast onset of action, high effectivity rate, and low toxicity in overdose; however, as with most medications, it may have drawbacks due to adverse or paradoxical effects. The detection period for the Benzodiazepines in the urine is 3-7 days.

The Multi-Drug Rapid Test Cup yields a positive result when the Benzodiazepines in urine exceeds detective level.

level.

### Lysergic Acid Diethylamide (LSD)

Lysergic acid diethylamide (LSD) is a white powder or a clear, colorless liquid. LSD is manufactured from lysergic acid which occurs naturally in the ergot fungus that grows on wheat and rys. It is a Schedule I controlled substance, available in liquid, powder, tablet (microdots), and capsule form. LSD is recreationally used as a hallucinogen for its ability to alter human perception and mood. LSD is primarily used by oral administration, but can be inhaled, injected, and transdermally applied. LSD is a non-selective 5-HT agonist, may exert its hallucinogenic effect by interacting with 5-HT 2Areceptors as a partial agonist and modulating the NMDA receptor-mediated sensory, perceptual, affective and cognitive processes. LSD mimics 5-HT at 5-HT 1A receptors, producing a marked slowing of the firing rate of serotonergic neurons. LSD has a plasma half-life of 2.5-4 hours. Metabolites of LSD include N-desmethyl-LSD, hydroxy-LSD, 2-oxo-LSD, and 2-oxo-3-hydroxy-LSD. These metabolites are all inactive. LSD use can typically be detected in urine for periods of 2-5 days.

The Multi-Drug Rapid Test Cup yields a positive result when Lysergic Acid Diethylamide in urine exceeds

### Methylphenidate (MPD)

Methylphenidate (Ritalin) is a psychostimulant drug approved for treatment of ADHD or attention-deficit hyperactivity disorder, postural orthostatic tachycardia syndrome and narcolepsy. Methylphenidate primarily acts as a norepinephrine-dopamine reuptate inhibitor. Methylphenidate is most active at modulating levels of dopamine and to a lesser extent norepinephrine. Similar to cocaine, methylphenidate binds to and blocks dopamine and to a lesser extent norepinephrine. Similar to cocaine, methylphenidate binds to and blocks dopamine transporters and norepinephrine transporters. Methylphenidate has both dopamine transporter and norepinephrine transporter in Methylphenidate enantiomers displaying a prominent affinity for the norepinephrine transporter. Methylphenidate may also exert a neuroprotective action against the neurotoxic effects of Parkinson's disease and methamphetamine abuse. Methylphenidate taken orally has a bioavailability of 11-52% with a duration of action around 1-4 hours forinstant release, 3-8 hours for sustained release, and 8-12 hours for extended release(Concerta). The half-life or methylphenidate is 2-3 hours, depending on the individual. The peak plasma time is achieved at about 2 hours.

The Multi-Drug Rapid Test Cup yields a positive result when the Methylphenidate (Ritalin) in urine exceeds 300 not/ml.

# ng/mL. Zolpidem(ZOL)

Zolpidem (ZOL)

Zolpidem (Koran names Ambien, Ambien CR, Intermezzo, Stilnox, Stilnox, Stilnox, Hypnogen, Zonadin, Sanval and Zolsana) is a prescription medication used for the treatment of insomnia and some brain disorders. It is a short-acting nonbenzodiazepine hypnotic of the imidazopyridine class¹ that potentiates GABA, an inhibitory neurotransmitter, by binding to GABAA receptors at the same location as benzodiazepines.² It works quickly, usually within 15 minutes, and has a short half-life of two to three hours.

works quickly, usually within 15 minutes, and has a short half-life of two to three hours. Zolpidem may be detected in blood or plasma to confirm a diagnosis of poisoning in hospitalized patients, provide evidence in an impaired driving arrest, or to assist in a medico-legal death investigation. Blood or plasma Zolpidem concentrations are usually in a range of 30–300 µg/l in persons receiving the drug therapeutically, 100–700 µg/l in those arrested for impaired driving, and 1000–7000 µg/l in victims of acute over dosage. Analytical techniques, in general, involve gas or liquid chromatography. 34.5

The Multi-Drug Rapid Test Cup yields a positive result when Zolpidem in urine reaches 50ng/ml.

Zoniclone (ZOP)

The Multi-Drug Rapid Test Cup yields a positive result when Zolpidem in urine reaches 50ng/ml.

Zopiclone (zOP)

Zopiclone is a nonbenzodiazepine hypnotic agent used in the treatment of insomnia. It is a cyclopyrrolone, which increases the normal transmission of the neurotransmitter gamma-aminobutyric acid in the central nervous system, as benzodiazepines do, but in a different way. Zopiclone is indicated for the short-term treatment of insomnia where sleep initiation or sleep maintenance are prominent symptoms. Long-term use is not recommended, as tolerance, dependence, and addiction can occur with prolonged use. Zopiclone is partly extensively metabolized in the liver to form an active N-demethylated derivative (N-desmethylzopiclone) and an inactive zopiclone-N-pxide inactive zopiclone-N-oxide.

In urine, the N-demethyl and N-oxide metabolites account for 30% of the initial dose, Between 7 and 10% of In urine, the N-demethyl and N-oxide metabolites account for 30% of the initial dose. Between 7 and 10% of zopiclone is recovered from the urine, indicating extensive metabolism of the drug before excretion. The terminal elimination half-life of zopiclone ranges from 3.5 to 6.5 hours (5 hours on average). The top peak plasma concentration is 1 - 2 h, the absorption rate constant is 1.3 h-1 and maximum plasma concentration after administration of 7.5 mg is 131µg/l.

Zopiclone may be measured in blood, plasma, or urine by chromatographic methods. Plasma concentrations are typically less than 100µg/l during therapeutic use, but frequently exceed 100µg/l in automotive vehicle operators arrested for impaired driving ability and may exceed 1000µg/l in acutely poisoned patients. Post mortem blood concentrations are usually in a range of 0.4-3.9 mg/l in victims of fatal acute overdose. The Methcathinone (MCAT)

Methcathinone(MCAT)
Methcathinone, is a monoamine alkaloid and psychoactive stimulant, a substituted cathinone. Methcathinone is a highly addictive drug, primarily psychologically addicting and most of the signs of addiction to the drug are emotional or psychological. It has been popularized and continues to be sold under misleading names such as "bath salts", "plant fertilizers" or "research chemicals", but it is actually a powerful psycho-stimulant used as a recreational drug. Effects of this drug typically last from 4 to 6 hours. It is used as a recreational drug due to its potent stimulant and euphoric effects and is considered to be addictive, with both physical and psychological withdrawal occurring if its use is discontinued after prolonged or high-dosage administration 17. It is usually snorted, but can be smoked, injected, or taken orally. Methcathinone is listed as a Schedule I controlled substance by the Convention on Psychotropic Substances and the United States" Controlled Substances Act, and as expedienced to be offered to the treatment dispersion school proceed as expedienced to be offered to the treatment dispersion school proceed as expedienced to be offered to the treatment dispersion school proceed as expedienced to the order or effective in the treatment dispersion school proceed as expedienced to the order or effective in the treatment dispersion school proceed as expedienced to the order or effective in the treatment dispersion school proceed as expedienced to the order or expedienced to the ord and as such it is not considered to be safe or effective in the treatment, diagnosis, prevention, or cure of any disease, and has no approved medical use. Methcathinone has very strong affinities for the dopamine transporter and the norepinephrine (noradrenaline) transporter. Its affinity for the serotonin transporter is less than that of methamphetamine.<sup>18</sup>

than mat or methamphetamine. "
Effects of short term intoxication are similar to those produced by crack cocaine or methamphetamine: stimulation of heart rate and respiration; feeling of euphoria; loss of appetite; increased alertness; pupils may be dilated; body temperature may be slightly elevated. Acute intoxication at higher doses may also result in: insomnia, tremors and muscle twitching, fever, headaches, convulsions, irregular heart rate and respirations, anxiety, restlessness, paranoia, hallucinations and delusions.

## 7-aminoclonazepam (7-ACL)

7-aminoclonazepam (r-AcL)
7-aminoclonazepam is the major metabolite of clonazepam. Clonazepam sold under the brandname Klonopin among others, is a medication used to prevent and treat seizures, panic disorder, and for the movement disorder known as akathisia. It is a type of benzodiazepine. As a major metabolite, 7-aminoclonazepam may be used to monitor use of the parent drug, clonazepam. Clonazepam, marketed as Klonopin and Rivotril, is a long-acting benzodiazepine with anxiolytic, anticonvulsant, muscle relaxant, and byportia reportine.

The Multi-Drug Rapid Test Panel (Urine) is a rapid urine-screening test that can be performed without the use of an instrument. The test utilizes the antibody to selectively detect elevated levels of 7-aminoclonazepam in urine. The Multi-Drug Rapid Test Panel (Urine) yields a positive result when the 7-aminoclonazepam in urine exceed

### Carfentanyl(CFYL)

CarfentanyI(CFYL)

CarfentanyI is an analog of the synthetic opioid analgesic fentanyI. It is 10,000 times more potent than morphine, making it among the most potent commercially used opioids. Carfentanil was first synthesized in 1974. It is marketed under the trade name Wildnil as a general anaesthetic agent for large animals. Side effects of carfentanil are similar to those of fentanyI, which include itching, nausea and respiratory depression, which can be life-threatening. Carfentanil is classified as Schedule II under the Controlled Substances Act in the United States with a DEA ACSCN of 9743.

States with a DEA ACSCN of 9743. Cathine (CAT) Cathine (CAT) Cathine, also known as benzoylethanamine, or  $\beta$ -keto-amphetamine is a monoamine alkaloid found in the shrub Catha edulis (CAT) and is chemically similar to ephedrine, Cathinone, methCathinone and other amphetamines. It with amphetamine, ephedrine, methamphetamine and mephedrone belongs to excitatory amphetamines psychiatric drugs, has the strong central excitement and suppress appetite, has been widely applied in the depression, fatigue, obesity, gastric ulcer, etc. The earliest found in Arab tea, because of its structure and pharmacological activities are similar to amphetamines, so called "natural amphetamine. <sup>19</sup>It has approximately 10-14% the notency of amphetamine. <sup>20</sup>

structure and pharmacological activities are similar to amphetamines, so called "natural amphetamine." <sup>19</sup>It has approximately 10-14% the potency of amphetamine. <sup>20</sup>S-(-)-Cathinone (S-(-)-alpha-aminopropiophenone) is the major active principle of khat leaves (Catha edulis), which are widely used in East Africa and the Arab peninsula as an amphetamine-like stimulant. After oral administration of synthesized cathinone (isomers, racemate), 22-52% was recovered in 24 h urine samples mainly as aminoalcohol metabolites. With GC/MS, HPLC and CD, the main metabolite of S-(-)-cathinone was identified as R/S-(-)-norephedrine and the main metabolite of R-(+)-cathinone as R/R-(-)-norpseudoephedrine. Both aminoalcohols are formed by a stereospecific keto reduction. <sup>21</sup>Use too much Cathinone can cause loss of appetite, anxiety, irritability, insomnia, illusion and panic attacks. Abusers have for a long time for the development of personality disorder and continuing the risk of myocardial infarction. The World Anti-Doping Agency's list of prohibited substances (used for the Olympic Games among other athletic events) bars cathine in concentrations of over 5 micrograms per milliliter in urine.Cathine is a

other athletic events) bars cathine in concentrations of over 5 micrograms per milliliter in urine.Cathine is a Schedule III drug under the Convention on Psychotropic Substances.<sup>22</sup>

Tropicamide(TRO)

Tropicamide is an antimuscarinic drug usually prescribed as an ophthalmic solution to induce short-term mydriasis and oycloplegia. Tropicamide is currently abused (injected intravenously) as an inexpensive recreational deliriant drug<sup>23</sup>.

mydriasis and cycloplegia. Tropicamide is currently abused (injected intravenously) as an inexpensive recreational deliriant drug<sup>23</sup>. Misuse of tropicamide typically occurs through IV injection; its effects last from 30 min to 6 h, and It is usually mixed with heroin, methadone, and other opioid drugs to potentiate the "rush" when injected intravenously. Medical effects of tropicamide misuse include sturred speech, persistent mydriasis, unconsciousness/unresponsiveness, hallucinations, kidney pain, dysphoria, "open eye dreams," hyperthermia, tremors, suicidal feelings, convulsions, psychomotor agitation, tachycardia and headache.

The TRO Rapid Test Dipstick (Urine) is a rapid urine screening test that can be performed without the use of an instrument. The test utilizes a monoclonal antibody to selectively detect elevated levels of tropicamide in urine. The TRO Rapid Test Dipstick (Urine) is a psychoactively detect elevated levels of tropicamide in urine. The TRO Rapid Test Dipstick (Urine) is a psychoactive recreational drug with stimulant properties which acts as a norepinephrine-dopamine reuptake inhibitor (NDRI). It was first developed in the 1960s by a team at Boehringer Ingelheim. MDPV remained an obscure stimulant until around 2004 when it was reportedly sold as a designer drug. Products labeled as bath salts containing MDPV were previously sold as recreational drugs in gas stations and convenience stores in the United States, similar to the marketing for Spice and K2 as incense. MDPV is the 3,4-methylenedioxy ring-substituted analog of the compound pyrovalerone, developed in the 1960s, which has been used for the treatment of chronic fatigue and as an anorectic, but caused problems of abuse and dependence. However, despite its structural similarity, the effects of MDPV bear little resemblance to other methylenedioxy phenylalkylamine derivatives such as 3,4-methylenedioxy innesthylenedioxy innesthylenedioxy innesthylenedioxy innesthylenedioxy innesthylenedioxy into heavily stimulant effects with only mi

pyrrolidine will be detected in the urine.

Diazepam (DIA)

Diazepam is a medication of the benzodiazepine family that typically produces a calming effect. It has anticonvulsant properties. Diazepam has no effect on GABA levels and no effect on glutamate decarboxylase activity, but has a slight effect on gamma-amino butyric acid transaminase activity. Diazepam can be administered orally, intravenously intramuscularly (IM), or as a suppository. When administrated orally, it is rapidly absorbed and has a fast onset of action. The onset of action is one to five minutes for IV administration and 15–30 minutes for IM administration. The duration of diazepam's peak pharmacological effects is 15 minutes to one hour for both routes of administration. The bioavailability after oral administration is 100% and 90% after rectal administration. Peak plasma levels occur between 30 and 90 minutes after oral administration. and between 30 and 60 minutes after intramuscular administration; after rectal administration, peak plasma levels occur after 10 to 45 minutes. Diazepam is highly protein-bound, with 96 to 99% of the absorbed drug being protein-bound. The distribution half-life of diazepam is 2 to 13 minutes. When diazepam is administered IM, absorption is slow, erratic, and incomplete.

## Caffeine(CAF)

Caffeine is a central nervous system (CNS) stimulant of the methylxanthine class. It is the world's most widely

Caffeine is a central nervous system (CNS) stimulant of the methylxanthine class. It is the world's most widely consumed psychoactive drug. It is found in the seeds, nuts, or leaves of a number of plants native to South America and East Asia and confers on them several survival and reproductive benefits. Caffeine can produce a mild form of drug dependence – associated with withdrawal symptoms such as sleepiness, headache, and irritability – when an individual stops using caffeine after repeated daily intake. 22-25 After intravenous administration of caffeine the urine level of the drug is approximately the same in each of the first 4 hourly specimens. Blood samples taken 10 and 70 minutes after injection of the drug were analyzed and showed 0.29 and 0.28mg, per 100 cc. respectively. There are to be contrasted with 1st hour urine which contained 0.73mg.per 100 cc., essentially 3 times that in the blood. After oral administration of caffeine to the horse the concentration of caffeine in the urine rose progressively during the first 3 hours, remained relatively constant through the 8th hours. At 48 hours, a urine specimen contained approximately 0.17mg, per 100 cc. of caffeine. In addition, flu-like symptoms, nausea/vomiting, and muscle pain/stiffness were judged likely to represent valid symptom categories. In experimental studies, the incidence of clinically significant distress or functional impairment was 13%. Typically, onset of symptoms occurred 12–24 h after abstinence, with peak intensity at 20–51 h, and for a duration of 2–9 days. 1% to 3% of caffeine is excreted unchanged in the urine. The rate of caffeine metabolism is variable, with a half-life of 4 to 6h.

## Mephedrone(MEP100)

Mephedrone, also known as 4-methylmethcathinone (4-MMC) or 4-methylephedrone is a synthetic stimulant drug of the amphetamine and cathinone classes. Slang names include drone, <sup>29</sup>M-CAT, <sup>30</sup>White Magic<sup>31</sup> and meow meow. <sup>32</sup>It is chemically similar to the cathinone compounds found in the khat plant of eastern Africa. Mephedrone comes in the form of tablets or a powder, which users can swallow, sont or inject, producing similar effects to MDMA, amphetamines and cocaine. In addition to its stimulant effects, Mephedrone produces

side effects, of which teeth grinding are the most common. A number of metabolites are possible, however the n-demethyl metabolite of Mephedrone will be 4-Methylcathinone. This metabolite appears to be nearly inactive as a Monoamine Oxydase Inhibitor. On further metabolism of this metabolite appears to be nearly inactive as a Monoamine Oxydase Inhibitor. On further metabolism of this metabolite one of the possible metabolites are valued in the control of the Neto. A dose of 150mg-250mg is the average, giving a duration of around 2 hours. the duration will lengthen in larger 250mg+ dosages.

## Alprazolam(ALP)

Alprazolam, available under the trade name Xanax among others, is a short-acting anxiolytic of the benzodiazepine class. It is commonly used for the treatment of panic disorder, and anxiety disorders, such as generalized anxiety disorder (GAD) or social anxiety disorder (SAD). 33.34 Alprazolam, like other benzodiazepines, binds to specific sites on the GABAA receptor. It possesses anxiolytic, sedative, hypnotic,

benzodiazepines, binds to specific sites on the GABAA receptor. It possesses anxiolytic, sedative, hypnotic, skeletal muscle relaxant, anticonvulsant, and amnestic properties.

A mean half-life of alprazolam of 16.3 hours has been observed in healthy elderly subjects (range: 9.0-26.9 hours, n=16) compared to 11.0 hours (range: 6.3-15.8 hours, n=16) in healthy adult subjects. Alprazolam and its metabolites are excreted primarily in the urine. The pharmacokinetics of alprazolam and two of its major active metabolites (4-hydroxyalprazolam and α-hydroxyalprazolam) are linear, and concentrations are proportional up to the recommended maximum daily dose of 10 mg given once daily. Peak concentrations in the plasma occur in one to two hours following administration. Plasma levels are proportionate to the dose given; over the dose range of 0.5 to 3.0 mg, peak levels of 8.0 to 37ng/ml were observed. <sup>35</sup>

### Alcohol(ALC)

Alcohol intoxication can lead to loss of alertness, coma, death and birth defects. Determination of ethyl alcohol in blood, saliva and urine is commonly used for measuring legal impairment, alcohol poisoning, etc. The BAC (Blood Alcohol Content) at which a person becomes impaired is variable. The United States Department of Transportation (DOT) has established a BAC of 0.02% (0.02g/dL) as the cut-off level at which an individual is considered positive for the presence of alcohol.

The Multi-Drug Rapid Test Panel yields a positive result when the concentration of Alcohol in urine exceeds

## [WHAT IS ADULTERATION]

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

destroying the drugs present in the unite. Pintachinary are 15 and 4 and 15 and 15 and 16 and

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

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

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

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

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

Bleach tests for the presence of bleach bleach refers to a number of chemicals which remove color, whiten or disinfect, often by oxidation, Bleaches are used as household chemicals to whiten clothes and remove stains and as disinfectants. Normal human urine should not contain bleach.

remove stains and as disinfectants. Normal human urine should not contain bleach.

PRINCIPLE (FOR DOA TESTS EXCLUDING ALCOHOL)

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

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

of drug competition, white a day ...g... absence of drug competition.

To serve as a procedural control, a colored line will always appear at the control region, indicating that proper volume of specimen has been added and membrane wicking has occurred.

volume of specimen has been added and memorate winding has occurred.

PRINCIPLE (FOR ALCOHOL)

The urine Alcohol Rapid Test consists of a plastic strip with a reaction pad attached at the tip. On contact with the urine Alcohol Rapid Test consists of a plastic strip with a reaction pad attached at the tip. On contact with the consentration of alcohol present. This is based on alcohol, the reaction pad will change colors depending on the concentration of alcohol present. This is based on the high specificity of alcohol oxidase for ethyl alcohol in the presence of peroxidase and enzyme substrate

such as IMB.

REAGENTS(FOR DOA TESTS EXCLUDING ALCOHOL)

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

### REAGENTS (FOR ALCOHOL)

Tetramethylbenzidine, Alcohol Oxidase

Perox	iaase
S.V.T	REAG

T	REAGENTS			
	Adulteration Pad	Reactive indicator	Buffers and non-reactive ingredients	1
	Creatinine	0.04%	99.95%	1
	Nitrite	0.07%	99.94%	1
	Bleach	0.39%	99.77%	1
	Glutaraldehyde	0.02%	99.97%	1
	pН	0.06%	99.94%	1
	Specific Gravity	0.25%	99.78%	1
	Oxidants / PCC	0.36%	99.70%	1

### PRECAUTIONS

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

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

## SPECIMEN COLLECTION AND PREPARATION

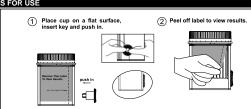
Urine Assay
The urine specimen should be collected in a clean and dry container. Urine collected at any time of the day may be used. Urine specimens exhibiting visible precipitates should be centrifuged, filtered, or allowed to settle to obtain a clear specimen for testing.

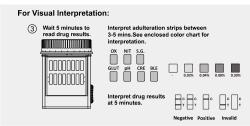
Specimen Storage
Urine specimens may be stored at 2-8°C for up to 48 hours prior to testing. For prolonged storage, specimens may be frozen and stored below -20°C. Frozen specimens should be thawed and mixed well before testing. When testing cards with S.V.T. or Alcohol storage of urine specimens should not exceed 2 hours at room or 4 hours refrigerated prior to testing

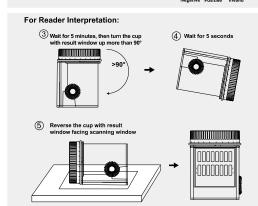
## MATERIALS

- Test Cups
- Package insert
- Adulteration Color Chart (when applicable)
  - Materials Required But Not Provided

## DIRECTIONS FOR USE







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

  1. Bring the pouch to room temperature before opening it. Remove the cup from the sealed pouch and use it within one hour.

  2. Collect specimen in the cup and secure the cap tightly.

  3. Check the temperature label (Temp Label) up to 4 minutes after specimen collection. A green color will appear to indicate the temperature of the urine specimen. The proper range for an unadulterated specimen is 32-38°C (90-100°F). 22-38°C (90-100°F).

  Check the cap for a tight seal; remove the key from the cap.
- Place the cup on a flat surface, and push the key into the socket of the cup to begin the test. Start timer. Remove the peel-off label covering the test results and wait for the colored line(s) to appear

Read results at 5 minutes. Do not interpret results after 10 minutes.

1. Wait for 5 minutes, then cup back more than  $90^{\circ}$ ; 2. Wait for 5 seconds.

### INTERPRETATION OF RESULTS

### (Please refer to the illustration above)

NEGATIVE:\* A colored line appears in the Control region (C) and colored lines appear in the Test region (T). This negative result means that the concentrations in the urine sample are below the designated cut-off (T). This negative result means that the concentrations in the urine sample are below the designated cut-off levels for a particular drug tested.

\*NOTE: The shade of the colored lines(s) in the Test region (T) may vary. The result should be considered

negative whenever there is even a faint line.

POSITIVE: A colored line appears in the Control region (C) and NO line appears in the Test region (T).

The positive result means that the drug concentration in the urine sample is gre for a specific drug.

INVALID: No line appears in the Control region (C). Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for Control line failure. Read the directions again and repeat the test with a new test card. If the result is still invalid, contact your manufacturer. INTERPRETATION OF RESULTS (S.V.T/ ADULTERATION)

(Please refer to the color chart)

Semi Quantitative results are obtained by visually comparing the reacted color blocks on the strip to the printed color blocks on the color chart.

Interpretation of RESULTS (ALCOHOLSTRIP)

Negative: Almost no color change by comparing with the background. The negative result indicates that the urine alcohol level is less than 0.02%.

Positive: A distinct color developed all over the pad. The positive result indicates that the urine alcohol concentration is 0.02% or higher.

concentration is 0.02% or nigner.

Invalid: The test should be considered invalid if only the edge of the reactive pad turned color that might be ascribed to insufficient sampling. The subject should be re-tested. Besides, if the color pad has a blue color sample, do not use the te

### QUALITY CONTROL

A procedural control is included in the test. A line appearing in the control region (C) is considered an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking and correct procedural

Control standards are not supplied with this kit. However, it is recommended that positive and negative controls

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

  LIMITATIONS

  1. The Multi-Drug Rapid Test Cup provides only a qualitative, preliminary analytical result. A secondary analytical method must be used to obtain a confirmed result. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method.<sup>1,10</sup>
- There is a possibility that technical or procedural errors, as well as interfering substances in the urine specimen may cause erroneous results. Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. If adulteration is suspected, the test should be repeated with another urine A positive result does not indicate level or intoxication, administration route or concentration in urine
- A postive result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cut-off level of the test.

  This test does not distinguish between drugs of abuse and certain medications.
- A positive test result may be obtained from certain foods or food supplements. Alcohol in the atmosphere, such as spray from perfumes, deodorizers, glass cleaners etc. can affect the Alcohol Rapid Tests. Therefore, adequate measures should be taken to avoid undue interference from such atmospheric agents
- in the testing area.

  8. The test is only for detection of presence/ absence of alcohol in the urine, which may result from habitual

- drinking or medications and does not discriminate the two.

  S.V.T/ADULTERATION LIMITATIONS

  1. The adulteration tests included with the product are meant to aid in the determination of abnormal specimens. While comprehensive, these tests are not meant to be an "all-inclusive" representation of possible
- adulterants.

  2. Oxidants/PCC: Normal human urine should not contain oxidants or PCC. The presence of high levels of antioxidants in the specimen, such as ascorbic acid, may result in false negative results for the oxidants/PCC
- Specific Gravity: Elevated levels of protein in urine may cause abnormally high specific gravity values.
- 4. Nitrite: Nitrite is not a normal component of human urine. However, nitrite found in urine may indicate urinary tract infections or bacterial infections. Nitrite levels of > 20 mg/dL may produce false positive glutaraldehyde
- Glutaraldehyde: is not normally found in urine. However certain metabolic abnormalities such as ketoacidosis
- (fasting, uncontrolled diabetes or high protein diets) may interfere with the test results.

  6. Creatinine: Normal Creatinine levels are between 20 and 350 mg/dL. Under rare conditions, certain kidney
- diseases may show dilute urine.

  7. Bleach: Normal human urine should not contain bleach. The presence of high levels of bleach in the specimen may result in false negative results for the bleach pad.

EXPECTED/VALUES

The negative result indicates that the drug concentration is below the detectable level. Positive result means the able level.

# concentration of drug is above the detect PERFORMANCE CHARACTERISTICS

Accuracy
A side-by-side comparison was conducted using the Multi-Drug Rapid Test Cup and commercially available drug rapid tests. Testing was performed on approximately 250 specimens per drug type previously collected from subjects presenting for Drug Screen Testing. Presumptive positive results were confirmed by GC/MS.

| Method | GC/MS | % agreement with GC/MS |

% agreement with GC/MS

Multi-Drug R	apid Test Cup	Positive	Negative	70 agreement wan com					
ACE	Positive	29	1	93.5%					
5,000	Negative	2	68	98.6%					
AMP	Positive	103	3	98.1%					
1,000	Negative	2	142	97.9%					
AMP	Positive	110	2	99.1%					
500	Negative	1	137	98.6%					
AMP	Positive	116	2	99.1%					
300	Negative	1	131	98.5%					
BAR	Positive	98	2	96.1%					
300	Negative	4	146	98.6%					
BAR	Positive	101	3	95.3%					
200	Negative	5	141	97.9%					
BZO	Positive	112	3	98.2%					
500	Negative	2	133	97.8%					
BZO	Positive	121	1	98.4%					
300	Negative	2	126	99.2%					
BZO	Positive	127	2	99.2%					
200	Negative	1	120	98.4%					
BZO	Positive	128	3	99.2%					
100	Negative	1	118	97.5%					
BUP	Positive	105	0	99.1%					
10	Negative	1	144	>99.9%					
BUP	Positive	105	0	99.1%					
5	Negative	1	144	>99.9%					
COC	Positive	111	3	98.2%					
300	Negative	2	134	97.8%					
COC	Positive	40	0	>99.9%					
200	Negative	0	60	>99.9%					
COC	Positive	116	4	98.3%					
150	Negative	2	128	97.0%					
COC	Positive	117	4	99.2%					
100	Negative	1	128	97.0%					
THC	Positive	86	4	94.5%					

Met Multi-Drug Ra		Positive GC	/MS Negative	% agreement with GC/M
150	Negative	5	155	97.5%
THC	Positive	92	3	97.9%
50	Negative	2	153	98.1%
THC	Positive	95	4	96.9%
25	Negative	3	148	97.4%
MTD	Positive	89	2	98.9%
300	Negative	1	158	98.8%
MTD	Positive	91	2	98.7%
200	Negative	1	156	98.7%
MET	Positive	76	5	96.2%
1,000	Negative	3	166	97.1%
MET	Positive	83	5	97.6%
500	Negative	2	160	97.0%
MET	Positive	88	4	97.8%
300	Negative	2	156	97.5%
MDMA	Positive	99	1	98.0%
1,000	Negative		148	99.3%
MDMA	Positive	102	1	98.1%
500	Negative	103	145	99.3%
MDMA	Positive		1	98.1%
300	Negative	2	144	99.3%
MOP	Positive	95	7	95.0%
300	Negative	5	143	95.3%
MOP	Positive	98	5	97.0%
100	Negative	3	144	96.6%
MQL	Positive	79	11	89.8%
	Negative	9	151	93.2%
OPI	Positive	117	8	96.7%
PCP	Negative Positive	85	121 5	93.8% 92.4%
	Negative	7	153	96.8%
	Positive	97	9	96.0%
PPX	Negative	4	140	94.0%
TCA	Positive	91	13	94.8%
	Negative	5	141	91.6%
TML	Positive	82	12	88.2%
100	Negative	11	145	92.4%
TML	Positive	82	6	88.2%
Z00	Negative	11	151	96.2%
TML	Positive	81	6	88.0%
300	Negative	11	152	96.2%
KET	Positive	77	3	97.5%
1,000	Negative	2	168	98.2%
KET	Positive	81	3	97.6%
500	Negative	2	164	98.2%
KET	Positive	89	4	96.7%
300	Negative	3	154	97.5%
KET	Positive	97	4	96.0%
OXY	Negative	4	145	97.3%
	Positive	84	1	97.7%
100	Negative	2	163	99.4%
COT	Positive	88	4	96.7%
200	Negative	3	155	97.5%
COT	Positive	93	3	97.9%
100	Negative	2	152	98.1%
EDDP	Positive	92	1	97.9%
300	Negative	2	155	99.4%
EDDP	Positive	95	5	96.9%
100	Negative	3	147	96.7%
FYL	Positive	79	1	98.8%
20	Negative	1	169	99.4%
FYL	Positive	80	1	98.8%
10	Negative	1	168	99.4%
	Positive	78	3	97.5%
K2-50	Negative	2	167	98.2%
K2-30	Positive	82	2	97.6%
	Negative	2	164	98.8%
6-MAM10	Positive	42	2	97.7%
	Negative	1	105	98.1%
MDA500	Positive	103	3	98.1%
	Negative Positive	2 83	142	97.9% 97.6%
ETG500	Negative	2	164	99.4%
	Positive	81	1	95.3%
ETG1,000	Negative	4	164	99.4%
CLO	Positive	101	1	97.1%
400	Negative	3	145	99.3%
CLO	Positive	103	2	99.0%
150	Negative	1	144	98.6%
LSD 20	Positive	33	1	94.3%
	Negative Positive	2 32	64	98.5% 94.1%
LSD 50	Negative	2	65	98.5%
	Positive	35	1	94.6%
MPD	Negative	2	62	98.4%
ZOL	Positive Negative	20	2 66	90.9% 97.1%
ZOP	Positive	19 3	2 69	86.4% 97.2%
MCAT	Negative Positive	20	4	90.9%
	Negative	2	76	95.0%
	Positive	32	1	94.1%
7-ACL 300	Negative	2	43	97.7%
	Positive	35	1	94.6%
7-ACL 200	Negative	2	40	97.6%
7-ACL 100	Positive	36	1	94.7%
	Negative	2	39	97.5%
CFYL 500	Positive	36 2	1 72	94.7%
CAF 1000	Negative Positive	21	3	98.6% 91.3%
	Negative	2	66	95.7%
	Positive	19	2	90.5%
CAT 150	Negative	2	73	97.3%
TRO 350	Positive	23	2	92.0%
	Negative	2	64	97.0%
MDPV	Positive Negative	28 2	1 69	93.3% 98.6%
DIA 300	Positive	121	1	98.4%
	Negative	2	126	99.2%
	Positive	121	1	98.4%
DIA 200	Negative	2	126	99.2%
MEP	Positive Negative	19 2	64	90.5% 97.0%
	Positive	20	2	90.9%

				greemer		ommerc	ial Kit						375	10	8	2	9 1	8 2
	ACE 5,000	AMP 1,000	AMP 500	AMP 300	BAR 300	BAR 200	BZO 500	BZO 300	BZO 200	BZO 100	BUP 10		625 750	10	1	9	2 8	1 9
Positive Agreement	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	BENZOI	DIAZEPINES (BZO 300)	10	0	10	0 10	0 10
Negative Agreement	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%		Oxazepam conc. (ng/mL)	n per site	Sit	te A	Site B	Site C
Total Results	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%		0	10	10	0	10 0	10 0
	BUP	COC	COC	COC	COC	THC	THC	THC	MTD	MTD	MET		150 225	10 10	10 9	0	10 0 9 1	10 0 9 1
Da aiti va	5	300	200	150	100	150	50	25	300	200	1,000		375	10	1	9	1 9	1 9
Positive Agreement	*	>99.9%	*	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	RENZO!	450 DIAZEPINES (BZO 200)	10	0	10	0 10	0 10
Negative Agreement	*	>99.9%	*	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	BENZO	Oxazepam	n per	Sit	te A	Site B	Site C
Total Results	*	>99.9%	*	*	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%		conc. (ng/mL)	site 10	- 10	+	- + 10 0	- + 10 0
	MET	MET	MDMA	MDMA	MDMA	MOP	MOP	MQL	OPI	PCP	PPX		100	10	10	0	10 0	10 0
Positive	500	300	1,000	500	300	300	100		*				150 250	10 10	9	9	8 2	9 1 2 8
Agreement	>99.9%	>99.9%	>99.9%	>99.9%		>99.9%	>99.9%	>99.9%		>99.9%	>99.9%		300	10	0	10	0 10	0 10
Negative Agreement	>99.9%	>99.9%	>99.9%	>99.9%	*	>99.9%	>99.9%	>99.9%	*	>99.9%	>99.9%	BENZOI	OIAZEPINES (BZO 100) Oxazepam	n per	Sit	te A	Site B	Site C
Total Results	>99.9%	>99.9%	>99.9%	>99.9%	*	>99.9%	>99.9%	>99.9%	*	>99.9%	>99.9%		conc. (ng/mL)	site	-	+	- +	- +
	TCA	TML	TML 200	TML 300	KET 1,000	KET 500	KET 300	KET 100	OXY	COT 200	COT 100		0 50	10 10	10	0	10 0	10 0 10 0
Positive	*	*	*	*	>99.9%	6 >99.9%	>99.9%	>99.9%	*	*	*		75	10	9	1	8 2	7 3
Agreement Negative		*	*		>99.9%	6 >99.9%	>99.9%	>99.9%			*		125 150	10 10	0	9	1 9 0 10	2 8 0 10
Agreement Total Results	*	*	*	*	>99.9%	6 >99.9%	>99.9%	>99.9%	*	*	*	BUPRE	IORPHINE (BUP 10)	1				
Total Nesatts					1			1					Buprenorphine conc. (ng/mL)	n per site	- Sit	te A +	Site B +	Site C +
	EDDP 300	EDDP 100	FYL 20	FYL 10	K2 50	K2 30	6-MAM 10	MDA 500	ETG 500	ETG 1,000	CLO 400		0	10	10	0	10 0	10 0
Positive Agreement	*	*	*	*	*	*	*	*	*	*	*		5 7.5	10	10 9	1	10 0 9 1	10 0 8 2
Negative Agreement	*	*	*	*	*	*	*	*	*	*	*		12.5	10	1	9	1 9	1 9
Total Results	*	*	*	*	*	*	*	*	*	*	*	BUPRE	15 IORPHINE (BUP 5)	10	0	10	0 10	0 10
	CLO	1	l		_ 1	_ 1	1	7-ACL	7-ACL	7-ACL	CFYL		Buprenorphine conc. (ng/mL)	n per site	Sit	te A +	Site B	Site C
Doo!#:	150	LSD20	LSD50	MPD	ZOL	ZOP	MCAT	300	200	100	500		0	10	10	0	10 0	10 0
Positive Agreement	*	*	*	*	*	*	*	*	*	*	*		2.5 3.75	10 10	10 9	0	10 0 9 1	10 0 8 2
Negative Agreement	*	*	*	*	*	*	*	*	*	*	*		6.25	10	1	9	1 9	1 9
Total Results	*	*	*	*	*	*	*	*	*	*	*	COCAIN	7.5 E (COC 300)	10	0	10	0 10	0 10
		CA	F 1000	CAT			MDPV	DIA	DIA	MEP	ALP	7	Benzoylecgonine	n per	Sit	te A	Site B	Site C
Positive Agree	ament	CA	*	150		50 *	1000	300	200	100	100	4	conc. (ng/mL)	site 10	- 10	+	- + 10 0	- + 10 0
Negative Agre			*	*		*	*	*	*	*	*	1	150	10	10	0	10 0	10 0
Total Results			*	*		*	*	*	*	*	*		225 375	10 10	9	9	9 1 1 9	9 1
* Note	Based or	GC/MS	data inst		ommerci Precision								450	10	0	10	0 10	0 10
A study was of within run, bet												COCAIN	E (COC 200)  Benzoylecgonine	n per	Sit	te A	Site B	Site C
at concentrati													conc. (ng/mL)	site		+	- +	- +
ACETAMINO	PHEN (AC	CE5,000)									i		0 100	10 10	10	0	10 0 10 0	10 0
		hetamine . (ng/mL)		n pe site		Site A +	- S	ite B +	Sit	e C +			150	10	9	1	9 1	9 1
		0		10	10	_	10	0	10	0			250 300	10 10	0	9 10	1 9 0 10	1 9 0 10
		2,500 3,750		10	9		10	1	10 8	2		COCAIN	E (COC 150)	1	0:4	1		
	(	6,250		10			1	9	1	9			Benzoylecgonine conc. (ng/mL)	n per site	- Sit	te A +	Site B +	Site C +
AMPHETAMI		7,500 <b>1,000)</b>		10	0	10	0	10	0	10			0	10	10	0	10 0	10 0
		hetamine . (ng/mL)		n pe site		Site A	S	ite B	Sit	e C			75 112.5	10 10	10 9	0	10 0 9 1	10 0 9 1
	CONC	0	<u>'                                      </u>	10	10	0 0	10	0	10	0			187.5 225	10 10	2	8	2 8	2 8
		500 750		10 10	10		10	0 2	10 9	0		COCAIN	E (COC 100)	10	0	10	0 10	0 10
		,250		10			2	8	2	8			Benzoylecgonine conc. (ng/mL)	n per site	Sit	te A	Site B +	Site C +
AMPHETAMI		,500 <b>500</b> )		10	0	10	0	10	0	10			0	10	10	0	10 0	10 0
AMI- DE LAMI	Amp	hetamine		n pe		Site A	S	ite B	Sit	e C			50 75	10 10	10 9	0	10 0 9 1	10 0 9 1
<u> </u>	conc	. (ng/mL) 0	)	site 10			- 10	+ 0	- 10	+ 0			125	10	2	8	2 8	2 8
		250		10	10	0	10	0	10	0		MARIIII	150 ANA (THC150)	10	0	10	0 10	0 10
-		375 625		10 10	9		9	9	9	1 8			11-nor-∆9-COOH	n per		te A	Site B	Site C
		750		10				10	0	10			conc. (ng/mL)	site 10	10	0	- + 10 0	- + 10 0
AMPHETAMI	•	300) hetamine	)	n pe	er	Site A	S	ite B	Sit	e C			75	10	10	0	10 0	10 0
		. (ng/mL)		site	_	+	-	+	-	+			112.5 187.5	10 10	9	8	9 1 1 9	9 1 1 9
<del> </del>		0 150		10 10			10	0	10 10	0			225	10	0	10	0 10	0 10
		225		10	8	2	8	2	8	2		MARIJU	ANA (THC50) 11-nor-Δ <sup>9</sup> -COOH	n per	Sit	te A	Site B	Site C
-		375 450		10 10	0		0	8 10	0	8 10			conc. (ng/mL)	site	-	+	- +	- +
BARBITURA	TES (BAR	300)									! 		0 25	10 10	10	0	10 0 10 0	10 0 10 0
		obarbital . (ng/mL)	)	n pe site	_	Site A +	- S	ite B +	- Sit	e C +			37.5	10	9	1	8 2	9 1
		0	•	10 10			10	0	10	0			62.5 75	10 10	0	9 10	1 9 0 10	2 8 0 10
<del> </del>		150 225		10	10		10	2	10 9	1		MARIJU	ANA (THC25)		C:4	te A	Site B	Site C
		375		10	2	8	1	9	2	8			11-nor-∆ <sup>9</sup> -COOH conc. (ng/mL)	n per site	- Sit	te A +	- +	- +
BARBITURA		450 <b>200)</b>		10	0			10	0	10			0 12.5	10 10	10 10	0	10 0 10 0	10 0 10 0
		obarbital . (ng/mL)	)	n pe site		Site A	S	ite B +	Sit	e C +			18.75	10	8	2	8 2	8 2
		0		10	10	0 0	10	0	10	0			31.25 37.5	10 10	1	9 10	1 9 0 10	2 8 0 10
		100 150		10 10	10		10 9	0	10 9	0		METHAI	37.5 DONE (MTD300)	IU		1		
		250		10	1	9	1	9	1	9			Methadone conc. (ng/mL)	n per site	Sit	te A	Site B +	Site C
BENZODIAZI		300 <b>320 500</b>		10	0	10	0	10	0	10			0	10	10	0	10 0	10 0
	Oxa	azepam		n pe		Site A	S	ite B	Sit	e C			150 225	10 10	10 9	0	10 0 9 1	10 0 9 1
<u> </u>	conc	. (ng/mL) 0	)	site 10	10	+ 0 0	10	+ 0	- 10	+			375	10	1	9	1 9	1 9
		250		10	10		10	0	10	0			450	10	0	10	0 10	0 10
	_		_	_														

METHAL	OONE (MTD200)  Methadone	n per	Site A	Site B	Site C	TRICYCL	IC ANTIDEPRESSANTS (TCA)  Nortriptyline	n per	Site A	Site B	Site C
	conc. (ng/mL)	site	- +	- +	- +		conc. (ng/mL)	site	- +	- +	- +
	0 100		10 0	10 0 10 0	10 0	-	0 500	10 10	10 0 10 0	10 0 10 0	10 0
	150	10	8 2	8 2	8 2	-	750	10	9 1	8 2	8 2
	250 300	10 10	1 9 0 10	1 9 0 10	2 8 0 10	-	1,250 1,500	10 10	1 9 0 10	1 9 0 10	1 9 0 10
METHAN	MPHETAMINE (MET1,000)				•	TRAMAD	OL (TML 100)			l.	
	Methamphetamine conc. (ng/mL)	n per site	Site A +	Site B	Site C		Tramadol conc. (ng/mL)	n per site	Site A	Site B +	Site C +
	0		10 0	10 0	10 0		0	10	10 0	10 0	10 0
ļ	500		10 0	10 0	10 0		50	10	10 0	10 0	10 0
	750 1,250	10 10	9 1 1 1	9 1 2 8	9 1	-	75 125	10 10	9 1	9 1	8 2 8
	1,500	10	0 10	0 10	0 10		150	10	0 10	0 10	0 10
METHAN	MPHETAMINE (MET 500)  Methamphetamine	n per	Site A	Site B	Site C	TRAMAD	OL (TML 200)	n per	Site A	Site B	Site C
	conc. (ng/mL)	site	- +	- +	- +	_	Tramadol conc. (ng/mL)	site	- +	- +	- +
ŀ	0 250		10 0	10 0 10 0	10 0 10 0	-	0 100	10 10	10 0 10 0	10 0 10 0	10 0 10 0
	375	10	9 1	9 1	9 1	-	150	10	9 1	9 1	8 2
ļ	625	10	1 9	1 9	1 9		250	10	1 9	1 9	2 8
METHAN	750 MPHETAMINE (MET300)	10	0 10	0 10	0 10	TRAMAD	300 OL (TML 300)	10	0 10	0 10	0 10
	Methamphetamine	n per	Site A	Site B	Site C		Tramadol conc. (ng/mL)	n per	Site A	Site B	Site C
	conc. (ng/mL)	site 10	- + 10 0	- + 10 0	- + 10 0	_	0	site 10	- + 10 0	- + 10 0	10 0
	150		10 0	10 0	10 0		150	10	10 0	10 0	10 0
	225	10	9 1	9 1	9 1	-	225 375	10 10	9 1	9 1	8 2 8
	375 450	10	1 9 0 10	1 9 0 10	1 9 0 10		450	10	0 10	0 10	0 10
METHYL	ENEDIOXYMETHAMPHETAMINE	(MDMA1, 0	00) Ecstasy			KETAMI	NE (KET1, 000)	n n	Site A	Site B	Site C
	Methylenedioxymethamphetami conc. (ng/mL)	ne n per site	Site A	Site B	Site C		Ketamine conc. (ng/mL)	n per site	- +	- +	- +
ŀ	0	10	10 0	10 0	10 0	<u> </u>	0	10	10 0	10 0	10 0
ļ	500 750	10 10	10 0 9 1	10 0 9 1	10 0	}	500 750	10 10	10 0 9 1	10 0 8 2	10 0 9 1
ŀ	1,250	10	9 1	9 1	8 2 1 9		1,250	10	1 9	1 9	2 8
	1,500	10	0 10	0 10	0 10	KETAMIN	1,500 NE (KET500)	10	0 10	0 10	0 10
MEIHYL	ENEDIOXYMETHAMPHETAMINE Methylenedioxymethamphetami			Site B	Site C		Ketamine conc. (ng/mL)	n per	Site A	Site B	Site C
	conc. (ng/mL)	site	- +	- +	- +	-	0	site 10	- + 10 0	- + 10 0	- + 10 0
	0 250	10	10 0	10 0 10 0	10 0	-	250	10	10 0	10 0	10 0
	375	10	8 2	9 1	9 1		375	10	9 1	9 1	8 2
	625 750	10	1 9 0 10	1 9 0 10	1 9 0 10	-	625 750	10 10	1 9 0 10	1 9 0 10	2 8 0 10
METHYL	ENEDIOXYMETHAMPHETAMINE			0 10	0 10	KETAMI	NE (KET300)			•	
	Methylenedioxymethamphetami conc. (ng/mL)	ne n per site		Site B	Site C		Ketamine conc. (ng/mL)	n per site	Site A	Site B	Site C +
	0	10	10 0	10 0	10 0	•	0	10	10 0	10 0	10 0
ļ	250	10	10 0	10 0	10 0		150 225	10 10	10 0 9 1	10 0 9 1	10 0 9 1
	375 625	10	8 2	9 1	7 3	-	375	10	1 9	1 9	1 9
•	750	10	0 10	0 10	0 10	KETAMIN	450	10	0 10	0 10	0 10
MORPHI	NE (MOP 300) Morphine	n per	Site A	Site B	Site C	KETAMII	Vetering cone (ng/ml.)	n per	Site A	Site B	Site C
	conc. (ng/mL)	site	- +	- +	- +	-	Ketamine conc. (ng/mL)	site	- +	- +	- +
-	0 150	10 10	10 0 10 0	10 0 10 0	10 0	-	0 50	10 10	10 0 10 0	10 0 10 0	10 0 10 0
F	225	10	9 1	9 1	9 1		75	10	9 1	9 1	9 1
	375	10	1 9	1 9	1 9	-	125 150	10 10	1 9 0 10	1 9 0 10	2 8 0 10
MORPHI	450 NE (MOP 100)	10	0 10	0 10	0 10	охусор	ONE (OXY100)				
	Morphine	n per	Site A	Site B	Site C		Oxycodone conc. (ng/mL)	n per site	Site A	Site B	Site C
	conc. (ng/mL)	site 10	- + 10 0	10 0	- + 10 0		0	10	10 0	10 0	10 0
	50	10	10 0	10 0	10 0	-	50 75	10 10	10 0 9 1	10 0 9 1	10 0 9 1
-	75 125	10 10	9 1	9 1	9 1	-	125	10	1 9	1 9	1 9
į	150	10	0 10	0 10	0 10	COTININ	150	10	0 10	0 10	0 10
METHAC	QUALONE (MQL 300)  Methaqualone	n per	Site A	Site B	Site C	COTININ	E (COT 200)	n per	Site A	Site B	Site C
	conc. (ng/mL)	site	- +	- +	- +	<u> </u>	Cotinine conc. (ng/mL)	site	- + 10 0	- +	- + 10 0
ļ	0 150	10 10	10 0 10 0	10 0 10 0	10 0 10 0		0 100	10 10	10 0	10 0 10 0	10 0 10 0
ŀ	225	10	9 1	9 1	9 1	<u> </u>	150	10	9 1	9 1	9 1
Į	375	10	1 9	1 9	1 9	-	250 300	10 10	1 9 0 10	1 9 0 10	2 8 0 10
MORPHI	450 NE/OPIATE (OPI 2,000)	10	0 10	0 10	0 10	COTININ	E (COT 100)				
	Morphine conc. (ng/mL)	n per site	Site A	Site B	Site C		Cotinine conc. (ng/mL)	n per site	Site A	Site B	Site C +
	0	10	- + 10 0	- + 10 0	- + 10 0		0	10	10 0	10 0	10 0
	1,000	10	10 0	10 0	10 0	-	50 75	10 10	10 0 9 1	10 0 9 1	10 0 9 1
	1,500 2,500	10 10	9 1	9 1	9 1	-	125	10	1 9	1 9	1 9
•	3,000	10	0 10	0 10	0 10		150	10	0 10	0 10	0 10
PHENCY	CLIDINE (PCP)	T-	Site A	Site B	Site C	2-ETHYL	IDENE-1,5-DIMETHYL-3,3-DIPHEN	n per	Site A	Site B	Site C
	Phencyclidine conc. (ng/mL)	n per site	- +	- +	- +	_	EDDP conc. (ng/mL)	site	- +	- +	- +
ŀ	0	10	10 0	10 0	10 0	<u> </u>	0 150	10 10	10 0 10 0	10 0 10 0	10 0
Ţ	12.5	10	10 0	10 0	10 0		225	10	9 1	9 1	9 1
<u> </u>	18.75	10	8 2	9 1	9 1		375	10	1 9	2 8	1 9
}	31.25 37.5	10 10	1 9 0 10	1 9 0 10	1 9 0 10	2-ETHYL	450 IDENE-1,5-DIMETHYL-3,3-DIPHEN	10 YLPYRROI	0 10 LIDINE (EDDP 1	0 10 1 <b>00)</b>	0 10
PROPOX	(YPHENE (PPX)						EDDP conc. (ng/mL)	n per	Site A	Site B	Site C
	Propoxyphene conc. (ng/mL)	n per site	Site A	Site B	Site C +	<u> </u>	0	site 10	- + 10 0	- + 10 0	- + 10 0
}	0	10	10 0	10 0	10 0	<u> </u>	50	10	10 0	10 0	10 0
Ţ	150	10	10 0	10 0	10 0		75 125	10 10	9 1	9 1	9 1
ŀ	225 375	10 10	8 2 1 9	9 1	9 1 1 9	<u> </u>	150	10	0 10	0 10	0 10
į	450	10	0 10	0 10	0 10	<u>-</u>	<del></del>		-	-	·

FENTA	NYL (FYL20)						25	10	) 9 1	1 10 0	10 0
	FYL conc. (ng/mL)	n per site	Site A	Site B	Site C	ZOP	75	10	0	10 1 9	
	0	10	10 0	10 0	10 0		Zopiclone	n per	Site A	Site B	Site C
	10 15	10 10	10 0 9 1	10 0 9 1	10 0 9 1		Concentration (ng/mL) 0	Site 10	- + 10 0	10 0	10 0
	25	10	1 9	1 9	1 9		25	10	10 0	10 0	10 0
FENTA	30 NYL (FYL10)	10	0 10	0 10	0 10		37.5 62.5	10	9 1 2 8	8 2	9 1 2 8
	FYL conc. (ng/mL)	n per site	Site A	Site B	Site C		75	10	0 10	0 10	0 10
	0	10	- + 10 0	- + 10 0	- + 10 0	MCAT	Methcathinone	n per	Site A	Site B	Site C
	5 7.5	10 10	10 0 9 1	10 0 9 1	10 0 9 1		Concentration (ng/mL)	Site	- +	- +	- +
	12.5	10	1 9	1 9	1 9		0 250	10	10 0 10 0	10 0	10 0
K2 50	15	10	0 10	0 10	0 10		375	10	9 1	8 2	9 1
00	K2 conc. (ng/mL)	n per	Site A	Site B	Site C		625	10	2 8 0 10	2 8	2 8
	0	site 10	- + 10 0	- + 10 0	- + 10 0	7-ACL(	750 <b>300)</b>	10	0 10	0 10	0 10
	25	10	10 0	10 0	10 0		<ul> <li>7- Aminoclonazepam Concentratio (ng/mL)</li> </ul>	n per Site	Site A	Site B	Site C
	37.5 62.5	10 10	8 2	8 2	9 1 2 8		(Hg/HL)	10	- + 10 0	10 0	10 0
160.00	75	10	0 10	0 10	0 10		150	10	10 0	10 0	10 0
K2 30	K2 conc. (ng/mL)	n per	Site A	Site B	Site C		225 375	10	8 2 2 8	9 1	9 1 3 7
	0 (19/11L)	site 10	- + 10 0	- + 10 0	- + 10 0		450	10	0 10	0 10	0 10
	15	10	10 0	10 0	10 0	7-ACL(			Cito A	Cito D	Site C
	22.5 37.5	10 10	8 2	9 1	9 1		<li>7- Aminoclonazepam Concentratio (ng/mL)</li>	n n per Site	Site A	Site B	Site C +
	45	10	0 10	0 10	0 10		0	10	10 0	10 0	10 0
6-MAM	CMM14 / / / ·	n per	Site A	Site B	Site C		100 150	10	10 0 8 2	10 0 9 1	10 0 8 2
	6-MAM conc. (ng/mL)	site	- +	- +	- +		250	10	2 8	2 8	2 8
	0 5	10 10	10 0 10 0	10 0 10 0	10 0 10 0	7-ACL(*	300	10	0 10	0 10	0 10
	7.5 12.5	10	9 1	9 1	9 1	7-ACL(	7- Aminoclonazepam Concentratio		Site A	Site B	Site C
	15	10 10	1 9 0 10	1 9 0 10	1 9 0 10		(ng/mL)	Site 10	- + 10 0	- + 10 0	- + 10 0
MDA 50		n per	Site A	Site B	Site C		50	10	10 0	10 0	10 0
	MDA conc. (ng/mL)	site	- +	- +	- +		75	10	7 3	7 3	9 1
	0 250	10 10	10 0 10 0	10 0 10 0	10 0 10 0		125 150	10	2 8 0 10	0 10	2 8 0 10
	375	10	9 1	9 1	9 1	CARFE	NTANYL(CFYL500)		1	1	
	625 750	10 10	1 9 0 10	1 9 0 10	1 9 0 10		Carfentanyl Concentration (ng/mL)	n per site	Site A	Site B +	Site C +
ETG500		1			'		0 250	10 10	10 0 10 0	10 0 10 0	10 0 10 0
	Ethyl Glucuronide Concentration (ng/mL)	n per Site	Site A +	Site B	Site C		375	10	7 3	9 1	8 2
	0	10	10 0	10 0	10 0		625 750	10	0 10	0 10	2 8 0 10
	250 375	10 10	10 0 8 2	10 0 8 2	10 0 9 1	CAFFE	INE (CAF 1000)  Caffeine	n per	Site A	Site B	Site C
	625	10	1 9	2 8	2 8		Concentration (ng/mL) 0	site 10	- + 10 0	- + 10 0	- + 10 0
ETG1,00	750 <b>00</b>	10	0 10	0 10	0 10		500	10	10 0	10 0	10 0
	Ethyl Glucuronide	n per	Site A	Site B	Site C		750 1250	10	2 8	2 8	9 1 2 8
	Concentration (ng/mL) 0	Site 10	- + 10 0	- + 10 0	- + 10 0	CATHIN	1500 NE (CAT 150)	10	0 10	0 10	0 10
	500	10	10 0	10 0	10 0		(+)-Norpseudoephedrine HCI Concentration(ng/mL)	n per site	Site A	Site B	Site C
	750 1250	10 10	8 2 1 9	8 2	9 1 2 8		0 75	10 10	10 0 10 0	10 0 10 0	10 0
	1500	10	0 10	0 10	0 10		112.5	10	9 1	8 2	9 1
CLO 40	0 Clonazepam	n per	Site A	Site B	Site C		187.5 225	10 10	2 8 0 10	2 8 0 10	2 8 0 10
	Concentration (ng/mL)	Site	- +	- +	- +	TROPIC	CAMIDE (TRO)  Tropicamide Concentration	n per	Site A	Site B	Site C
	0 200	10 10	10 0 10 0	10 0 10 0	10 0 10 0		(ng/ml) 0	site 10	- + 10 0	- + 10 0	- + 10 0
	300	10	9 1	8 2	9 1		175 262.5	10 10	10 0	10 0 8 2	10 0
	500 600	10 10	1 9 0 10	2 8 0 10	1 9 0 10		437.5	10	2 8	2 8	2 8
CLO 15	)					3, 4-ME	525 THYLENEDIOXYPYROVALERONE	10 <b>(MDPV)</b>	0 10	0 10	0 10
	Clonazepam Concentration (ng/mL)	n per Site	Site A +	Site B	Site C		3, 4-methylenedioxypyrovalerone	n per	Site A +	Site B	Site C
	0	10	10 0	10 0	10 0		Concentration (ng/mL) 0	site 10	10 0	10 0	10 0
	75 112	10 10	10 0 9 1	10 0 8 2	10 0 9 1		500 750	10 10	10 0 9 1	10 0 9 1	10 0 8 2
	187	10	1 9	2 8	1 9		1250 1500	10	1 9 0 10	1 9 0 10	1 9 0 10
LSD 20	225	10	0 10	0 10	0 10	DIAZEF	PAM (DIA 300)	1	•		
	Clonazepam Concentration (ng/mL)	n per Site	Site A	Site B	Site C		Diazepam Concentration (ng/mL)	n per Site	Site A	Site B	Site C +
	0	10	10 0	10 0	10 0		0	10	10 0	10 0	10 0
	10 15	10 10	10 0 9 1	10 0 9 1	10 0 9 1	1	150 225	10 10	10 0 9 1	10 0 9 1	10 0 9 1
	25 30	10 10	1 9 0 10	1 9 0 10	1 9 0 10	+	375	10	1 9	1 9	1 9
LSD 50	Clonazepam	n per	Site A	Site B	Site C	DIAZEF	450 PAM (DIA 200)	10	0 10	0 10	0 10
	Concentration (ng/mL)	Site 10	- + 10 0	- + 10 0	- +		Diazepam Concentration (ng/mL)	n per Site	Site A	Site B	Site C +
	25	10	10 0	10 0	10 0		0	10	10 0	10 0	10 0
	37.5 62.5	10 10	9 1 1 9	9 1	9 1		100 150	10 10	10 0 9 1	10 0 9 1	10 0 9 1
MPD	75	10	0 10	0 10	0 10		250	10	1 9	9 1	9 1 1 9
-	Methylphenidate (Ritalin) Concentration (ng/mL)	n per Site	Site A	Site B	Site C	MEDUE	300 DRONE (MEP 100)	10	0 10	0 10	0 10
	0	10	10 0	10 0	10 0	WEPHE	Mephedrone HCI	n pe		Site B	Site C
	150 225	10 10	10 0 9 1	10 0 8 2	10 0 9 1		Concentration. (ng/mL)	site	0 10 (	+ - + 0 10 0	- + 10 0
	375 450	10 10	1 9 0 10	2 8 0 10	1 9 0 10		50 75	1	0 10 (	0 10 0 1 8 2	10 0 9 1
ZOL	Zolpidem	n per	Site A	Site B	Site C		125 150	1	0 2 8	8 2 8 0 0 10	2 8
	Concentration (ng/mL)	Site	- +	- +	- +		150	'	<u> </u>	<u> </u>	J 10
	0	10	10 0	10 0	10 0	ļ					

ALPRAZOLAM (ALP 100)

Alprazolam Concentration	n per	Sit	e A	Sit	e B	Site C		
(ng/ml)	site	-	+	-	+	-	+	
0	10	10	0	10	0	10	0	
50	10	10	0	10	0	10	0	
75	10	9	1	8	2	9	1	
125	10	2	8	2	8	2	8	
150	10	0	10	0	10	0	10	

		50 75			ļ	10		10	(		10		2	10	1	0		
	12	25 50			ļ	10	1	2	1	3	2		3	2		8		
	13	50			Α.		ical				U	'	U	U	!_	10		
drug-free urine poo	l was				gs a				sitivity ncentr		s. Th	e resu	lts ar	e sur	nma	rized	bel	ow.
Drug Concentration	1	ACE 5000		1,00		AM	P500	AN	1P 300	) BA	R 30	0 BA	R 20	0 B	ZO5	00	BZC	D300
Cut-off Range 0% Cut-off			0 3	- 30	+ 0	- 30	+	30	+	30	) (		+ 0	3		+ 0	30	+
-50% Cut-off	3	_	_	_	0	30	0	30	_	30	_	_	_	3	_	0	30	0
-25% Cut-off	2	_	_	_	4	25	5	27	_	27	_	_		2	_	3	27	3
Cut-off +25% Cut-off	1	_	_	_	5 27	15 3	15 27	15	15 26	_	2		27	_	_	15 26	15 3	15 27
+50% Cut-off	(	) 3	30	0 (	30	0	30	0	30	0	3	0	30	) (	)	30	0	30
+300% Cut-off	(	) [3	30	0 (	30	0	30	0	30	0	3	0 0	30	) (	) [	30	0	30
Drug Concentration	BZC		-	0100	_	_	10		P 5		C300	CO		_		50		C100
Cut-off Range 0% Cut-off	- 30	+	30	+		- 30	+	30	+	30	+	30	+	30	_	+ 0	30	+
-50% Cut-off	30	0	30	0	_	30	0	30	0	30	0	30	0	30	_	0	30	0
-25% Cut-off Cut-off	27 16	3 14	27 14	3 16	_	26	4 16	26 14	4 16	26 13	17	26 14	16	27	_	3	27 16	3 14
+25% Cut-off	3	27	3	27	_	_	27	3	27	3	27	3	27	4	. 2	26	4	26
+50% Cut-off +300% Cut-off	0	30	0	30	_	0	30 30	0	30	0	30	0	30	0	_	30	0	30
+300 /8 Cut-on	0	30		30	<u> </u>	0 1	30	U	30	0	30				Ι,	50		30
Drug Concentration	THC	150	TH	IC50	-	THC	25	MTE	300	МТ	D200		IET 000	MI	ET5	00	ME	T300
Cut-off Range	-	+	-	+	_	-	+	-	+		+	-	+	1 -	_	+	-	+
0% Cut-off -50% Cut-off	30	0	30	0	_	30 30	0	30	0	30	0	30	0	30	_	0	30	0
-25% Cut-off	27	3	26	4	2	27	3	26	4	25	5	27	3	27	7	3	27	3
Cut-off +25% Cut-off	15 4	15 26	14	16 27	-	4	15 26	14 3	16 27	15 4	15 26	16 3	14 27	16	_	14 26	15 3	15 27
+50% Cut-off	0	30	0	30	_	_	30	0	30	0	30	0	30	0	_	30	0	30
+300% Cut-off	0	30	0	30		0	30	0	30	0	30	0	30	0	- 3	30	0	30
Drug Concentration	MD			MA	T	MOF		MC			PI	Р	CP	Ι,	PPX		TC	-Δ
Cut-off Range	1,0	000 +	- 5	00	+	300	+	- 20	)0 +	-	+	-	+	-		+	-	+
0% Cut-off	30	0	30	0	_	0	0	30	0	30	0	30	0	30	) (	0	30	0
-50% Cut-off -25% Cut-off	30 26	4	30 25	5	2	0	0	30 26	0	30 27	3	30 25	5	30 26	_		30 25	5
Cut-off	15	15	14	16	-	_	15	15	15	14	16	15	15	15	_	15	15	15
+25% Cut-off	5	25	4	26	_	_	25	3	27	4	26	3	27	3		27	4	26
+50% Cut-off +300% Cut-off	0	30	0	30	_	_	30	0	30	0	30	0	30	0	_	30 30	0	30
																	_	
Drug Concentration Cut-off Range		ИL 00		ML 200		TMI 300		KI 1,0	= I 000		ET 00		ET 00		KET 100		M	QL
0% Cut-off	- 30	+	- 30	+	-	- 80	+ 0	30	+	30	+	30	+	30	,	+ 0	30	+
-50% Cut-off	30	0	30	0		80	0	30	0	30	0	30	0	30		0	30	0
-25% Cut-off	27	3	27	3	-	7	3	27	3	27	3	26	4	27		3	26	4
Cut-off +25% Cut-off	15 4	15 26	15 4	15 26	_	_	15 27	15 3	15 27	15 4	15 26	16 4	14 26	15		15 27	15 3	15 25
+50% Cut-off	0	30	0	30	_		30	0	30	0	30	0	30	0	_	30	0	30
+300% Cut-off	0	30	0	30	1.	0	30	0	30	0	30	0	30	0	3	30	0	30
Drug Concentration	0)	ΚY		OT 200		CO <sup>-</sup>			DP 00		DP 00		YL 20		FYL 10			.2 0
Cut-off Range	-	+	-	+		-	+		+	٠	+	-	+	-		+	-	+
0% Cut-off -50% Cut-off	30	0	30	0	_	30	0	30	0	30	_	30	_	3		0	30	0
-25% Cut-off	27	3	27	3	-	27	3	27	3	26	-	27		_	_	3	27	3
Cut-off	15	15	15	15		14	16	15	15	15			_	_	_	15	15	15
+25% Cut-off +50% Cut-off	0	26 30	0	26 30	-	0	26 30	0	26 30	0	30		30	_		27 30	0	27 30
+300% Cut-off	0	30	0	30		0	30	0	30	0	30		30	_	_	30	0	30
Drug Concentratio	n T	K2 :	30	6-M/	M.	10	MDA	500	ET	G50	ΙЕ	TG10	00	CLO	400	ТС	LO	150
Cut-off Range		-	+	-	+		-	+	-	+	_	-	+	-	+		-	+
0% Cut-off -50% Cut-off		30 30	0	30	(	_	30	0	30	C	_	30 30	0	30	0		30 30	0
-25% Cut-off		27	3	27	3	3	26	4	26	4	. 2	26	4	26	4		26	4
Cut-off +25% Cut-off	_	16 4	14 26	15 4	2	5	15 3	15 27	15 3	2	_	_	15 27	14 5	16 25	_	4 5	16 25
+50% Cut-off		0	30	0	3	_	0	30	0	3	_		30	0	30		0	30
+300% Cut-off		0	30	0	3	0	0	30	0	3	)	0 ;	30	0	30	(	0	30
Drug Concentration		_SD2	20	LSD	50		MPD	)	ZC	DL	ME	MA30	00	ZO	Р	ı	MCA	T
Cut-off Range		_	+	-	+	-		+	-	+	30	+ 0		30	+	-		+
0% Cut-off -50% Cut-off	30	_		30	0	29	_	1	30	0	30		_	30	0	_	0	0
-25% Cut-off	2	_	_	27	3	*		*	26	4	25	_	_	27	3	_	8	2
Cut-off +25% Cut-off	14		16 27	14 3	16 27	15	5	15 *	14 5	16 25	15	15	_	17 4	13 26	_	7	13 27
+50% Cut-off	C	) ;	30	0	30	1	_	29	0	30	0	30	)	0	30	(	0	30
+300% Cut-off	C	) ;	30	0	30	0	. ;	30	0	30	0	30	)	0	30		0	30
Drug Concentration 7-ACL 300 7-ACL 200 7-ACL 100 CFYL CAF 1000 CAT TRO 350																		
Cut-off Range	"  -	-	+	-		+	-	+	_	500	+	- 1	+	- 1	50 +	+	- 38	+
0% Cut-off	_	30	0	30		0	30	0	3	_	0	30	0	30	0		30	0
-50% Cut-off -25% Cut-off		30 26	0 4	30 27	_	3	29 27	3	2	5	5	30 27	3	30 27	3	_	30 27	3
Cut-off	_	14	16	14	1	6	13	17	1	4	16	17	13	17	13	3	15	15
+25% Cut-off +50% Cut-off	4	5	25 30	3	-	27 30	4	26 29	(	_	24 30	5	25 30	4	30	_	3	27 30
+30% Cut-off	士	0	30	0	_	30	0	30	(	_	30	0	30	0	30	_	0	30
Drug Concentra	tion		MDP	V100	o I	יח	A 30	00	ות	A 20		ME	2100	ī	ДІ	P100	)	
Drug Concentra Cut-off Range			- -	+	J	ال	ام ما	-	+	n 20	-	-	+	_	- -	_	+	į.

0% Cut-off	30	0	30	30	0	30	30	0	30	0
-50% Cut-off	30	0	30	30	0	30	30	0	30	0
-25% Cut-off	26	4	27	27	3	27	27	3	28	2
Cut-off	14	16	15	17	13	17	17	13	17	13
+25% Cut-off	3	27	3	5	25	5	5	25	3	27
+50% Cut-off	0	30	0	0	30	0	0	30	0	30
+300% Cut-off	0	30	0	0	30	0	0	30	0	30

Analytical Specificity

urine by the

Analytes	Concentration (ng/mL)	Analytes	Concentrati (ng/mL)
Acetaminophen	ACETAN 5,000	MINOPHEN (ACE)	1
•	AMPHETA	AMINE (AMP 1,000)	
D,L-Amphetamine sulfate L-Amphetamine	300 25,000	Phentermine Maprotiline	1,000 50,000
(±) 3,4-Methylenedioxy	500	Methoxyphenamine	6,000
amphetamine		D-Amphetamine AMINE (AMP 500)	1,000
D,L-Amphetamine sulfate	150	Phentermine	500
L-Amphetamine (±) 3,4-Methylenedioxy	12,500	Maprotiline Methoxyphenamine	25,000 3,000
amphetamine	250	D-Amphetamine	500
D,L-Amphetamine sulfate	75	AMINE (AMP 300) Phentermine	300
L-Amphetamine (±) 3.4-Methylenedioxy	10,000	Maprotiline Methoxyphenamine	15,000 2,000
(±) 3,4-ivietnylenedioxy amphetamine	150	D-Amphetamine	300
Amobarbital	5,000	RATES (BAR 300) Alphenol	600
5,5-Diphenylhydantoin	8,000	Aprobarbital	500
Allobarbital Barbital	8,000	Butabarbital Butalbital	200 8,000
Talbutal	200	Butethal	500
Cyclopentobarbital Pentobarbital	30,000 8,000	Phenobarbital Secobarbital	300 300
	BARBITU	RATES (BAR 200)	•
Amobarbital 5,5-Diphenylhydantoin	3,000 5,000	Alphenol Aprobarbital	400 300
Allobarbital	400	Butabarbital	150
Barbital Talbutal	5,000 150	Butalbital Butethal	5,000 300
Cyclopentobarbital	20,000	Phenobarbital	200
Pentobarbital	5,000 BENZODIA	Secobarbital ZEPINES (BZO 500)	200
Alprazolam	200	Bromazepam	1,500
a-hydroxyalprazolam Clobazam	2,500 300	Chlordiazepoxide Nitrazepam	1,500 300
Clonazepam	800	Norchlordiazepoxide	200
Clorazepatedipotassium Delorazepam	800 1,500	Nordiazepam Oxazepam	1,500 500
Desalkylflurazepam	300	Temazepam	300
Flunitrazepam (±) Lorazepam	300 5,000	Diazepam Estazolam	500 10,000
RS-Lorazepamglucuronide	300	Triazolam	5,000
Midazolam	10,000 BENZODIA	ZEPINES (BZO 300)	
Alprazolam	100	Bromazepam	900
a-hydroxyalprazolam Clobazam	1,500 200	Chlordiazepoxide Nitrazepam	900 200
Clonazepam	500	Norchlordiazepoxide	100
Clorazepatedipotassium Delorazepam	500 900	Nordiazepam Oxazepam	900 300
Desalkylflurazepam	200	Temazepam	100
Flunitrazepam (±) Lorazepam	200 3,000	Diazepam Estazolam	300 6,000
RS-Lorazepamglucuronide Midazolam	200 6,000	Triazolam	3,000
	BENZODIA	ZEPINES (BZO 200)	
Alprazolam a-hydroxyalprazolam	70 1,000	Bromazepam Chlordiazepoxide	600 600
Clobazam	120	Nitrazepam	120
Clonazepam Clorazepatedipotassium	300 300	Norchlordiazepoxide Nordiazepam	70 600
Delorazepam	600	Oxazepam	200
Desalkylflurazepam Flunitrazepam	120 120	Temazepam Diazepam	70 200
(±) Lorazepam	2,000	Estazolam	4,000
RS-Lorazepamglucuronide Midazolam	120 4,000	Triazolam	2,000
	BENZODIA	ZEPINES (BZO 100)	
Alprazolam a-hydroxyalprazolam	40 500	Bromazepam Chlordiazepoxide	300 300
Clobazam	60	Nitrazepam	60
Clonazepam Clorazepatedipotassium	150 150	Norchlordiazepoxide Nordiazepam	40 300
Delorazepam Desella III urazenam	300	Oxazepam	100
Desalkylflurazepam Flunitrazepam	60 60	Temazepam Diazepam	40 100
(±) Lorazepam RS-Lorazepamglucuronide	1,000 60	Estazolam Triazolam	2,000 1,000
Midazolam	2,000	mazoiam	1,000
Buprenorphine	BUPRENO 10	Norbuprenorphine	50
Buprenorphine	50	Norbuprenorphine 3-D-Glucuronide	100
3-D-Glucuronide	BUPREN	ORPHINE (BUP 5)	
Buprenorphine	5	Norbuprenorphine	25
Buprenorphine 3-D-Glucuronide	25	Norbuprenorphine 3-D-Glucuronide	50
		INE (COC 300)	00.000
Benzoylecgonine Cocaine HCl	300 200	Cocaethylene Ecgonine	20,000 30,000
		INE (COC 200)	10.500
Benzoylecgonine Cocaine HCl	200 135	Cocaethylene Ecgonine	13,500 20,000
	COCA	INE (COC 150)	
Benzoylecgonine Cocaine HCl	150 120	Cocaethylene Ecgonine	1,0000 15,000
	COCA	INE (COC 100)	
Benzoylecgonine Cocaine HCl	100 80	Cocaethylene Ecgonine	7,000 10,000
	MARIJ	UANA (THC150)	•
Cannabinol 11-nor-△8-THC-9 COOH	100,000 100	△8-THC △9-THC	50,000 50,000
11-nor-△9-THC-9 COOH	150		
	PAAD.		
Cannabinol	35,000	UANA (THC50) △8-THC	17,000

11-nor-△9-THC-9 COOH	50 MARIJ	UANA (THC25)	
Cannabinol 11-nor-∆8-THC-9 COOH	17,500 15	△8-THC	8,500 8,500
11-nor-△8-THC-9 COOH 11-nor-△9-THC-9 COOH	25		J,JUU
Methadone	METHAI 300	DONE (MTD300) Doxylamine	100,000
Methadone	METHAI 200	DONE (MTD200) Doxylamine	65,000
	METHAMPHE	TAMINE (MET1, 000)	
o-Hydroxymethamphetamine D-Methamphetamine	25,000 1,000	(±)-3,4-Methylenedioxy- methamphetamine	12,500
Methamphetamine	20,000 <b>METHAMPH</b>	Mephentermine IETAMINE (MET500)	50,000
-Hydroxymethamphetamine	12,500	(±)-3,4-Methylenedioxy-	6,250
D-Methamphetamine -Methamphetamine	500 10,000	methamphetamine Mephentermine	25,000
-Hydroxymethamphetamine	METHAMPH 7,500	ETAMINE (MET300) (±)-3,4-Methylenedioxy-	3,750
D-Methamphetamine	300	methamphetamine	·
-Methamphetamine METHYLENE	6,000 DIOXYMETHAN	Mephentermine IPHETAMINE (MDMA1, 000) Ecstasy	15,000
±) 3,4-Methylenedioxy nethamphetamine HCl	1,000	3,4-Methylenedioxyethyl-amphetamine	600
±) 3,4-Methylenedioxy	6,000		
	DIOXYMETHA	MPHETAMINE (MDMA500) Ecstasy	
±) 3,4-Methylenedioxy nethamphetamine HCl	500	3,4-Methylenedioxyethyl-amphetamine	300
±) 3,4-Methylenedioxy amphetamine HCI	3,000		
METHYLENI	DIOXYMETHA	MPHETAMINE (MDMA300) Ecstasy	
E) 3,4-Methylenedioxy nethamphetamine HCl	300	3,4-Methylenedioxyethyl-amphetamine	180
±) 3,4-Methylenedioxy mphetamine HCl	1,800		
•		INE (MOP 300)	I
Codeine evorphanol	200 1,500	Norcodeine Normorphone	6,000 50,000
Morphine-3-β-D-Glucuronide	800	Oxycodone	30,000 50,000
lydrocodone	6,000 50,000	Oxymorphone Procaine	15,000
lydromorphone -Monoacethylmorphine	3,000 300	Thebaine Morphine	6,000 300
	MORPH	IINE (MOP 100)	
Codeine Levorphanol	80 500	Norcodeine Normorphone	2,000 20,000
Morphine-3-β-D-Glucuronide Ethylmorphine	300 2,000	Oxycodone Oxymorphone	10,000
lydrocodone	20,000	Procaine	5,000
lydromorphone -Monoacethylmorphine	1,000 200	Thebaine Morphine	2,000 100
	Methaqu	alone (MQL 300)	
Methaqualone	300 MORPHINE	OPIATE (OPI 2,000)	L
odeine thylmorphine	2,000 3,000	Morphine Norcodeine	2,000 25,000
lydrocodone	50,000	Normorphone	50,000
lydromorphone evorphanol	15,000 25,000	Oxycodone Oxymorphone	25,000 25,000
-Monoacetylmorphine forphine 3-β-D-glucuronide	3,000 2,000	Procaine Thebaine	50,000 25,000
	PHENC	YCLIDINE (PCP)	
Phencyclidine		4-Hydroxyphencyclidine  XYPHENE (PPX)	12,500
)-Propoxyphene	300	D-Norpropoxyphene FIDEPRESSANTS (TCA)	300
lortriptyline	1,000	Imipramine	400
lordoxepine rimipramine	500 3,000	Clomipramine Doxepine	50,000 2,000
mitriptyline	1,500	Maprotiline	2,000
romazine esipramine	3,000 200	Promethazine Perphenazine	50,000 50,000
yclobenzaprine	2,000 TRAMA	Dithiaden DOL (TML 100)	10,000
-Desmethyl-cis-tramadol	200	o-Desmethyl-cis-tramadol	10,000
Cis-tramadol Procyclidine	100 100,000	Phencyclidine d,I-O-Desmethyl venlafaxine	100,000 50,000
-Desmethyl-cis-tramadol	TRAMA	DOL (TML 200) o-Desmethyl-cis-tramadol	20,000
Cis-tramadol	200	Phencyclidine	200,000
Procyclidine	200,000 TRAMA	d,I-O-Desmethyl venlafaxine DOL (TML 300)	100,000
-Desmethyl-cis-tramadol cis-tramadol	600 300	o-Desmethyl-cis-tramadol Phencyclidine	30,000 300,000
rocyclidine	300,000	d,I-O-Desmethyl venlafaxine	150,000
etamine	1,000	INE (KET1, 000) Benzphetamine	25,000
extromethorphan	2,000 25,000	(+) Chlorpheniramine	25,000 100,000
lethoxyphenamine -Norpropoxyphene	25,000	Clonidine EDDP	50,000
romazine romethazine	25,000 25,000	4-Hydroxyphencyclidine Levorphanol	50,000 50,000
entazocine	25,000	MDE	50,000
Phencyclidine etrahydrozoline	25,000 500	Meperidine d-Methamphetamine	25,000 50,000
Mephentermine 1R, 2S) - (-)-Ephedrine	25,000 100,000	I-Methamphetamine 3,4-Methylendioxymethamphetamine	50,000 100,000
		(MDMA)	
isopyramide	25,000 KETAN	Thioridazine MINE (KET500)	50,000
etamine extromethorphan	500 1,000	Benzphetamine (+) Chlorpheniramine	12,500 12,500
lethoxyphenamine	12,500	Clonidine	50,000
-Norpropoxyphene romazine	12,500 12,500	EDDP 4-Hydroxyphencyclidine	25,000 25,000
romethazine	12,500	Levorphanol	25,000
Pentazocine Phencyclidine	12,500 12,500	MDE Meperidine	25,000 12,500
etrahydrozoline Mephentermine	250 12,500	d-Methamphetamine I-Methamphetamine	25,000 25,000
1R, 2S) - (-)-Ephedrine	50,000	3,4-Methylendioxymethamphetamine	50,000
Disopyramide	12,500	(MDMA) Thioridazine	25,000
-	KETAN	MINE (KET300) Benzphetamine	6,250
Cetamine	13UU		
Dextromethorphan	300 600	(+) Chlorpheniramine	6,250
Ketamine Dextromethorphan Methoxyphenamine I-Norpropoxyphene			6,250 30,000 15,000

Pentazocine	6,250	MDE	15,000
Phencyclidine Tetrahydrozoline	6,250 150	Meperidine d-Methamphetamine	6,250 15,000
Mephentermine	6,250	I-Methamphetamine	15,000
(1R, 2S) - (-)-Ephedrine	30,000	3,4-Methylendioxymethamphetamine (MDMA)	30,000
Disopyramide	6,250 <b>KETA</b>	Thioridazine MINE (KET100)	15,000
Ketamine Dextromethorphan	100 200	Benzphetamine (+) Chlorpheniramine	2,000 2.000
Methoxyphenamine	2,000	Clonidine	10,000
d-Norpropoxyphene Promazine	2,000 2,000	EDDP 4-Hydroxyphencyclidine	5,000 5,000
Promethazine	2,000	Levorphanol	5,000
Pentazocine Phencyclidine	2,000 2,000	MDE Meperidine	5,000 2,000
Tetrahydrozoline	50	d-Methamphetamine	5,000
Mephentermine (1R, 2S) - (-)-Ephedrine	2,000 10,000	I-Methamphetamine Thioridazine	5,000 5,000
Disopyramide	2,000	3,4-Methylendioxymethamphetamine (MDMA)	10,000
Oxycodone	Oxyco	done (OXY100) Hydromorphone	50,000
Oxymorphone	300	Naloxone	25,000
Levorphanol Hydrocodone	50,000 25,000	Naltrexone	25,000
	Cotin	nine (COT 200)	Jr. 000
(-)-Cotinine	200 Cotin	(-)-Nicotine line (COT 100)	5,000
(-)-Cotinine	100	(-)-Nicotine	2,500
2-Ethylidene-1,5-dimethyl-3,3	3-diphenylpyrrolic		300
2-Ethylide 2-Ethylidene-1,5-dimethyl-3,		-3,3-diphenylpyrrolidine (EDDP100) line (EDDP)	100
	Fen	tanyl (FYL20)	
Alfentanyl Fenfluramine	600,000 50,000	Buspirone Fentanyl	15,000 100
Norfentanyl	20	Sufentanyl	50,000
Alfentanyl	300,000	tanyl (FYL10) Buspirone	8,000
Fenfluramine Norfentanyl	25,000 10	Fentanyl Sufentanyl	50 25,000
	Synthetic	Marijuana (K2-50)	
JWH-018 5-Pentanoic acid JWH-018 4-Hydroxypentyl	50 400	JWH-073 4-butanoic acid JWH-018 5-Hydroxypentyl	50 500
JWH-073 4-Hydroxybuty	500		
JWH-018 5-Pentanoic acid	Synthetic 30	Marijuana (K2-30) JWH-073 4-butanoic acid	30
JWH-018 4-Hydroxypentyl	250	JWH-018 5-Hydroxypentyl	300
JWH-073 4-Hydroxybuty		to-morphine (6-MAM)	<u> </u>
6-Monoacethylmorphine	10	Morphine (MDA 500)	100,000
(±) 3,4-Methylenedioxy	500	Methoxyphenamine	5,000
amphetamine D,L-Amphetamine sulfate	400	D-Amphetamine Phentermine	2,000 2,000
L-Amphetamine	30,000	Maprotiline	100,000
Ethyl- β -D-Glucuronide	Ethyl- β-D-G 500	Blucuronide(ETG500) Propyl β-D-glucuronide	50,000
Morphine 3β-glucuronide	100,000	Morphine 6β-glucuronide	100,000
Glucuronic Acid Methanol	100,000 >100,000	Ethanol	>100,000
Ethyl- β -D-Glucuronide	Ethyl- β-D-GI	lucuronide(ETG1,000) Propyl β-D-glucuronide	100,000
Morphine 3β-glucuronide	>100,000	Morphine 6β-glucuronide	>100,000
Glucuronic Acid Methanol	>100,000 >100,000	Ethanol	>100,000
	CLONAZ	ZEPAM(CLO 400)	ı
Clonazepam Alprazolam	400 200	Flunitrazepam (±) Lorazepam	300 1,250
a-hydroxyalprazolam	2,000	RS-Lorazepamglucuronide	250
Bromazepam Chlordiazepoxide	1,000 1,000	Midazolam Nitrazepam	5,000 200
Clobazam	250	Norchlordiazepoxide	200
Clorazepatedipotassium Delorazepam	1,000	Nordiazepam Oxazepam	1,000 350
Desalkylflurazepam	250	Temazepam	150
Diazepam Estazolam	300	Triazolam	
Lotazolani	1,250		5,000
	CLONAZ	ZEPAM(CLO 150)	5,000
Clonazepam Alprazolam	150 75	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam	5,000 120 500
Clonazepam Alprazolam a-hydroxyalprazolam	CLONAZ 150	ZEPAM(CLO 150) Flunitrazepam	5,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide	75 75 750 400	ZEPAM(CLO 150)	5,000 120 500 100 2,000 75
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium	75 75 75 400 400 100 250	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam	5,000 120 500 100 2,000 75 75 400
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Delorazepam	75 75 750 400 400 100 250 400	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam	5,000 120 500 100 2,000 75 75 400 130
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Delorazepam Delorazepam Desalkylflurazepam Diazepam	CLONA2 150 75 750 400 400 100 250 400 1100	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordlazepam	5,000 120 500 100 2,000 75 75 400
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Desalkylflurazepam Desalkylflurazepam Estazolam	CLONA2 150 75 750 400 400 100 250 400 100 120 500	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Tremazepam Triazolam	5,000 120 500 100 2,000 75 75 400 130 60
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Delorazepam Delorazepam Diazepam Diazepam Estazolam L Lysergic Acid Diethylamide	CLONA2 150 75 750 400 400 400 100 250 400 120 500 120 500 25ERGIC ACID	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Tremazepam Triazolam DIETHYLAMIDE (LSD 20)	5,000 120 500 100 2,000 75 75 400 130 60
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Delorazepam Delorazepam Diazepam Diazepam Estazolam L Lysergic Acid Diethylamide	CLONA2 150 75 750 400 400 400 100 250 400 120 500 120 500 25ERGIC ACID	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Tremazepam Triazolam	5,000 120 500 100 2,000 75 75 400 130 60
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Delorazepam Desalkyffurazepam Diazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide	CLONA2 150 75 775 750 400 400 100 120 120 120 120 120 120 120 120 1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Tremazepam Triazolam  DIETHYLAMIDE (LSD 20)  LENIDATE (RITALIN)	5,000 120 500 100 2,000 75 75 400 130 60 2,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Clorazepam Clorazepatedipotassium Delorazepatedipotassium Desalkylflurazepam Estazolam  Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin)	CLONA2 150 75 775 7750 400 100 100 100 100 100 120 100 120 20 20 YSERGIC ACID 100 METHYLPH 100 100 2	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Triazolam Triazolam DIETHYLAMIDE (LSD 20)	5,000 120 500 100 2,000 75 75 400 130 60
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Delorazepam Desalkylfturazepam Diszepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem	CLONA; 150 75 750 400 400 100 250 400 100 120 500 VSERGIC ACID 50 METHYLPH 300 Z 50 Z Option	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Temazepam Triazolam  DIETHYLAMIDE (LSD 20) LENIDATE (RITALIN) Ritalinic Acid OLPIDEM Llone (ZOP 50)	5,000 120 5500 100 2,000 75 75 400 2,000 130 60 2,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Delorazepatedipotassium Delorazepam Desalkylflurazepam Diszapam Estazolam Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide	CLONA; 150 775 775 400 400 400 100 100 100 120 500 YSERGIC ACID 50 METHYLPH 300 Zopic 50 METHYLPH METH	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepaxide Nordiazepam Oxazepam Temazepam Triazolam  DIETHYLAMIDE (LSD 20)  LENIDATE (RITALIN) Ritalinic Acid OLPIDEM LOGO 150 Zopiclone HCATHINONE	5,000 120 500 100 2,000 75 75 400 130 60 2,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepatedipotassium Delorazepam Desalkylfturazepam Diazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Temazepam Triazolam  DIETHYLAMIDE (LSD 20)  DIETHYLAMIDE (LSD 50)  LENIDATE (RITALIN) Ritalinic Acid OLPIDEM Lione (ZOP 50) Zopiclone HCATHINONE R(+)-Methoathinone HCI	5,000  120  5500  100  2,000  75  75  400  2,000  11,000  150
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Delorazepatedipotassium Delorazepam Desalkyffurazepam Disalkyffurazepam Listazolam Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepaxide Nordiazepam Oxazepam Temazepam Triazolam DIETHYLAMIDE (LSD 20) DIETHYLAMIDE (LSD 50) IENIDATE (RITALIN) Ritalinic Acid COLPIDEM JCOLPIDEM JCOLPIDEM R(+)-Methcathinone HCI SA-Fluoromethcathinone HCI SA-SEPAM(7-ACL300)	5,000  120 500 100 2,000 75 75 400 130 60 2,000  1,000  1,000  1,000  1,000  1,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Clorazepam Clorazepate Clobazam Clorazepatedipotassium Desalkylflurazepam Desalkylflurazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine a-hydroxyalprazolam	CLONA2   150   1	ZEPAM(CLO 150) ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Triazolam  DIETHYLAMIDE (LSD 20)  IETHYLAMIDE (LSD 50)  IENIDATE (RITALIN) Ritalinic Acid OLPIDEM Ione (ZOP 50) Zopiclone HCATHINONE R(+)-Methcathinone HCl 3-Fluoromethcathinone HCl NAZEPAM(7-ACL300) Flunitrazepam	5,000  120 5500 100 2,000 75 75 75 400 2,000 11,000  11,000  1500 1500 13,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Clobazam Desalkyiflurazepam Desalkyiflurazepam Diszepam Estazolam Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine a-hydroxyalprazolam Bromazepam Chlordiazepoxide	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepaxide Nordiazepam Oxazepam Temazepam Triazolam  DIETHYLAMIDE (LSD 20)  DIETHYLAMIDE (LSD 50)  IENIDATE (RITALIN) Ritalinic Acid COLPIDEM  LOOL (ZOP 50) Zopiclone HCATHINONE R(+)-Methcathinone HCl NAZEPAM(7-ACL300) Flunitrazepam RS-Lorazepam glucuronide Norchlordiazepoxide	5,000  120 500 100 2,000 75 75 400 130 60 2,000  1,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Clorazepam Clorazepate Clobazam Clorazepatedipotassium Desalkylflurazepam Desalkylflurazepam Diazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam	150   150	ZEPAM(CLO 150) ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Triazolam  DIETHYLAMIDE (LSD 20)  IENIDATE (RITALIN) Ritallinic Acid OLPIDEM Iclone (ZOP 50) Zopiclone HCATHINONE R(+)-Methcathinone HCl 3-Fluoromethcathinone HCl NAZEPAM(7-ACL300) Flunitrazepam RS-Lorazepam glucuronide Norchlordiazepoxide Nordiazepam	5,000  120 5500 100 2,000 75 75 400 2,000 1130 60 2,000 11,000 1500 1500 1500 13,000 2,700 4,500 15,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Cloorazepatedipotassium Desalkylflurazepam Desalkylflurazepam Disazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Delorazepam	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepaxide Nordiazepam Oxazepam Temazepam Triazolam  DIETHYLAMIDE (LSD 20)  DIETHYLAMIDE (LSD 50)  IENIDATE (RITALIN) Ritalinic Acid COLPIDEM  LOOL (ZOP 50) Zopiclone HCATHINONE R(+)-Methcathinone HCl NAZEPAM(7-ACL300) Flunitrazepam RS-Lorazepam glucuronide Norchlordiazepoxide	5,000  120 500 100 2,000 75 75 400 130 60 2,000  1,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Triazolam  DIETHYLAMIDE (LSD 20)  IENIDATE (RITALIN) Ritalinic Acid OLPIDEM Lone (ZOP 50) Zopiclone HCATHINONE R(+)-Methoathinone HCl 3-Fluoromethcathinone HCl NAZEPAM(7-ACL300) Flunitrazepam RS-Lorazepam glucuronide Norchlordiazepam RS-Lorazepam Temazepam	5,000  120 500 1100 2,000 75 75 400 130 60 2,000  1,000  1500 1500 1500 15,000 4,500 15,000 9,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clolorazepatedipotassium Desalkyffurazepam Desalkyffurazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Desalkyffurazepam Desalkyffurazepam a-hydroxyalprazolam Bromazepam Desalkyffurazepam Desalkyffurazepam a-hydroxyalprazolam	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepamglucuronide Midazolam Norchlordiazepam Norchlordiazepam Oxazepam Temazepam Triazolam  DIETHYLAMIDE (LSD 20)  DIETHYLAMIDE (LSD 50)  IENIDATE (RITALIN) Ritalinic Acid OLPIDEM  ICOLPIDEM  R(+)-Methcathinone HCl Solone (ZOP 50) Zopiclone HCATHINONE R(+)-Methcathinone HCl NAZEPAM(7-ACL300) Flunitrazepam RS-Lorazepam glucuronide Norchlordiazepamide Norchlordiazepam Temazepam T-Aminoclonazepam  NAZEPAM(7-ACL200) Flunitrazepam  NAZEPAM(7-ACL200) Flunitrazepam	5,000  120  500  100  2,000  75  75  400  2,000  11,000  1500  1500  1500  15,000  9,000  3000  2,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Desalkylflurazepam Estazolam  Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyphenamine a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Trimazepam DIETHYLAMIDE (LSD 20) IENIDATE (RITALIN) Ritalinic Acid OCLPIDEM Jenitrate (Trimation) Icone (ZOP 50) Zopiclone HCATHINONE R(+)-Methcathinone HCl NAZEPAM(T-ACL300) Flunitrazepam RS-Lorazepam glucuronide Norchlordiazepoxide Norchlordiazepam Temazepam T-Aminoclonazepam Trimazepam T-Aminoclonazepam NAZEPAM(T-ACL200)	5,000  120 500 100 2,000 75 75 400 130 60 2,000  1,000  1500 1500 1500 15,000 9,000 300
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Desalkyflurazepam Desalkyflurazepam Estazolam Lysergic Acid Diethylamide Lysergic Acid Diethylamide Lysergic Acid Diethylamide Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCl Methoxyphenamine a-hydroxyalprazolam Bromazepam Clonazepam Desalkylflurazepam a-hydroxyalprazolam Bromazepam Desalkylflurazepam a-hydroxyalprazolam Bromazepam Clonazepam Desalkylflurazepam a-hydroxyalprazolam Bromazepam Clonazepam Desalkylflurazepam a-hydroxyalprazolam Bromazepam Clolordiazepoxide Clobazam Clolordiazepoxide	CLONA2   150   1	ZEPAM(CLO 150) ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Toxazepam Triazolam  DIETHYLAMIDE (LSD 20)  DIETHYLAMIDE (LSD 50)  IENIDATE (RITALIN) Ritalinic Acid COLPIDEM  Ione (ZOP 50) Zopiclone HCATHINONE R(+)-Methcathinone HCl 3-Fluoromethcathinone HCl NAZEPAM(7-ACL300) Flunitrazepam RS-Lorazepam glucuronide Nordiazepam Temazepam Temazepam Temazepam Temazepam Temazepam Temazepam RS-Lorazepam glucuronide Nordiazepam RS-Lorazepam glucuronide Norchlordiazepam RS-Lorazepam glucuronide Norchlordiazepam RS-Lorazepam glucuronide Norchlordiazepam RS-Lorazepam glucuronide Norchlordiazepam	5,000  120  500  100  2,000  75  75  400  2,000  1300  1500  1500  1500  15,000  15,000  1,800  1,800  3,000  1,000  1,000
Clonazepam Alprazolam a-hydroxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Desalkylflurazepam Estazolam  Lysergic Acid Diethylamide Methylphenidate (Ritalin) Zolpidem Zopiclone-x-oxide S(-)-Methcathinone HCI Methoxyalprazolam Bromazepam Chlordiazepoxide Clobazam Clobazam Chlordiazepam Desalkylflurazepam Desalkylflurazepam Desalkylflurazepam Delorazepam Desalkylflurazepam Desalkylflurazepam a-hydroxyalprazolam Bromazepam Desalkylflurazepam Desalkylflurazepam Bromazepam Chlordiazepoxide	CLONA2   150   1	ZEPAM(CLO 150) Flunitrazepam (±) Lorazepam RS-Lorazepamglucuronide Midazolam Nitrazepam Norchlordiazepoxide Nordiazepam Oxazepam Trimazepam Trimazepam Triazolam  DIETHYLAMIDE (LSD 20) IENIDATE (RITALIN) Ritalinic Acid OCLPIDEM ICOLPIDEM	5,000  120 500 100 2,000 75 75 400 130 60 2,000  1,000 1500 1500 15,000

a nyaroxyaiprazolam	2,000	i idilitidzepaili	1,000			
Bromazepam	2,000	RS-Lorazepam glucuronide	900			
Chlordiazepoxide	2,000	Norchlordiazepoxide	1,500			
Clobazam	3,000	Nordiazepam	5,000			
Clonazepam	800	Temazepam	3,000			
Delorazepam	2,000	7-Aminoclonazepam	100			
Desalkylflurazepam	2,000					
CARFENTANYL(CFYL500)						
Carfentanyl	500	Fentanyl	100			
	Caffe	eine (CAF 1000)				
Caffeine	1000					
Cathine (CAT 150)						
(+)-Norpseudoephedrine HCl (Cathine)	150	(+)3,4-Methylenedioxyamphetamine (MDA)	100			
d/l-Amphetamine	100	p-Hydroxyamphetamine	100			
Tryptamine	12,500	Methoxyphenamine	12,500			
Tryptamine		amide (TRO 350)	12,000			
Tropicamide	350	aniide (110 550)	I			
		lioxypyrovalerone (MDPV)	I .			
3, 4-methylenedioxy		iloxypyrovalerone (wibi v)	I			
pyrovalerone	1000					
Pyrovalerone	Diaz	epam (DIA 300)	1			
Diazepam	300	Midazolam	6,000			
Clobazam	200	Nitrazepam	200			
	500	Norchlordiazepoxide	100			
Clonazepam		Nordiazepam	900			
Clorazepate dipotassium	500					
Alprazolam	100	Flunitrazepam	200			
a-hydroxyalprazolam	1,500	(±) Lorazepam	3,000			
Bromazepam	900	RS-Lorazepam glucuronide	200			
Chlordiazepoxide	900	Triazolam	3,000			
Estazolam	6,000	Temazepam	100			
Delorazepam	900	Oxazepam	300			
Desalkylflurazepam	200					
Diazepam (DIA 200)						
Diazepam	200	Midazolam	4000			
Clobazam	120	Nitrazepam	120			
Clonazepam	300	Norchlordiazepoxide	70			
Clorazepate dipotassium	300	Nordiazepam	600			
Alprazolam	70	Flunitrazepam	120			
a-hydroxyalprazolam	1000	(±) Lorazepam	2000			
Bromazepam	600	RS-Lorazepam glucuronide	120			
Chlordiazepoxide	600	Triazolam	2000			
Estazolam	4000	Temazepam	70			
Delorazepam	600	Oxazepam	200			
Desalkylflurazepam	120					
, , , , , , , , , , , , , , , , , , , ,		edrone (MEP100)				
Mephedrone HCI	100	R(+)-Methcathinone HCI	1500			
S(-)-Methcathinone HCI	500	3-Fluoromethcathinone HCI	1500			
4-Fluoromethcathinone HCI	300	Methoxyphenamine	100.000			
ac.onoundaminone Hol		zolam(ALP 100)	1.00,000			
Benzodiazepines	300	Flunitrazepam	200			
a-hydroxyalprazolam	1,500	(±) Lorazepam	3,000			
Bromazepam	900	RS-Lorazepamglucuronide	200			
Chlordiazepoxide	900	Midazolam	6,000			
Clobazam	200	Nitrazepam	200			
Clonazepam	500		100			
	500	Norchlordiazepoxide	900			
Clorazepatedipotassium		Nordiazepam				
Delorazepam	900	Oxazepam	300			
Desalkylflurazepam	200	Temazepam	100			
Diazepam	300	Triazolam	3,000			
Estazolam	6000					
Effect of Urinary Specific Gravity						

a-hydroxyalprazolam

Effect of Urinary Specific Gravity

Fifteen (15) urine samples of normal, high, and low specific gravity ranges (1.005-1.045) were spiked with drugs at 50% below and 50% above cut-off levels respectively. The Multi-Drug Rapid Test Cup was tested in duplicate using fifteen drug-free urine and spiked urine samples. The results demonstrate that varying ranges of urinary specific gravity do not affect the test results.

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

## Cross-Reactivity

A study was conducted to determine the cross-reactivity

A study was conducted to determine the cross-reactivity of the test with compounds in either drug-free urine or drug positive urine containing, Amphetamine, Barbiturates, Benzodiazepines, Buprenorphine, Cocaine, Marijuana, Methadone, Methamphetamine, Methylenedioxymethamphetamine, Morphine, Cramadol, Ketamine, Phencyclidine, Propoxyphene or Tricyclic Antidepressants, Oxycodone, Cotinine, EDDP, Fentanyl, Synthetic Marijuana,6-mono-aceto-morphine, 3, 4-Methylenedioxyamphetamine, Ethyl-B-D-Glucuronide, Clonazepam, Lysergic Acid Diethylamide, Methylphenidate, Zolpidem, 7-Aminoclonazepam, Carfentanyl, 3, 4-methylenedioxyyprovalerone and Diazepam. The following compounds show no cross-reactivity when tested with the Multi-Drug Rapid Test Cup at a concentration of 100 µg/mL.

Non Cross-Reacting Compounds

Acetophenetidin Cartisone

Acetophenetidin Cortisone d-Pseudoephedrine Zomepirac Ketoprofen N-Acetylprocainamide Creatinine Quinidine Acetylsalicylic acid Aminopyrine Deoxycorticosterone Dextromethorphan Quinine Salicylic acid Labetalol Loperamide Meprobamate Diclofenac Amoxicillin Serotonin Ampicillin Diflunisal lsoxsuprine Sulfamethazine Digoxin
Diphenhydramine
Ethyl-p-aminobenzoate
β-Estradiol I-Ascorbic acid d.I-Propanolol Sulindac Apomorphine Aspartame Nalidixic acid Naproxen Tetracycline Tetrahydrocortisone, Niacinamide Atropine 3-acetate Benzilic acid Estrone-3-sulfate Nifedipine Tetrahydrocortisone Erythromycin Fenoprofen Furosemide Benzoic acid Norethindrone Tetrahydrozoline Thiamine Noscapine d,I-Octopamine d,l-Brompheniramine Thioridazine Caffeine Gentisic acid Oxalic acid d,I-Tyrosine Cannabidiol Hemoglobin Oxolinic acid Tolbutamide Chloral hydrate Chloramphenicol Chlorothiazide Oxymetazoline Papaverine Penicillin-G Triamterene Hydralazine Hydrochlorothiazide Hydrocortisone o-Hydroxyhippuric acid d,I-Chlorpheniramine Chlorpromazine Perphenazine d,I-Tryptophan 3-Hýdroxýtyramine Phenelzine Uric acid Cholesterol d,l-Isoproterenol Prednisone Verapamil

ALCOHOL PERFORMANCE CHARACTERISTICS

The detection limit on the Urine Alcohol Rapid Test is from 0.02% to 0.30% for approximate relative blood alcohol level. The cutoff level of the Urine Alcohol Rapid Test can vary based on local regulations and laws. reference levels with color chart on the foil packac

ALCOHOL ASSAY SPECIFICITY

The Urine Alcohol Rapid Test will react with methyl, ethyl and allyl alcohols ALCOHOL INTERFERING SUBSTANCES

The following substances may interfere with the **Urine Alcohol Rapid Test** when using samples other than urine. The named substances do not normally appear in sufficient quantity in urine to interfere with the test.

A. Agents which enhance color development

- Strong oxidizers Peroxidases
   B. Agents which inhibit color development
  - Reducing agents: Ascorbic acid, Tannic acid, Pyrogallol, Mercaptans and tosylates, Oxalic acid, Uric Acid

  - Bilirubin L-dopa
- Biltrubin
  L-methyldopa

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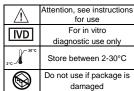
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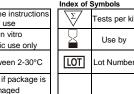
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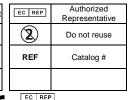
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593700 Number: Effective date 2017-05-18