# Catalogue No. See Box label

The Multi-Drug Urine Test Cup is a competitive binding, lateral flow immunochromatographic assay for qualitative and simultaneous detection of Amphetamine, Secobarbital, Buprenorphine, Oxazepam, Cocaine, Ethyl Glucuronide, Fentanyl, Synthetic Cannabis, Methylenedioxymethamphetamine, Methamphetamine, Morphine, Methadone, Opiate, Oxycodone, Phencyclidine, Propoxyphene, Nortriptyline, Cannabinoids and Tramadolin human urine at specified cutoff level.

Configurations of the Multi-Drug Urine Test Cup can consist of any combination of the above listed drug

The test provides only preliminary test results. A more specific alternative chemical method should be used in

6. order to obtain a confirmed analytical result. GC/MS or LC/MS is the preferred confirmatory method.

The test may yield positive results for the prescription drugs buprenorphine, oxazepam, oxycodone, and secobarbital when taken at or above prescribed doses. It is not intended to distinguish between prescription use or abuse of these drugs.

Clinical consideration and professional judgment should be exercised with any drug of abuse test result, particularly when the preliminary result is positive.

The multi-drug device may be combined with the adulteration control (Creatinine (CR),Glutaraldehyde (GLU), Nitrite (NI), pH, Specific Gravity (S.G.), Oxidants (OXI), and/or Pyridium Chlorochromate (PCC)) for the MATERIAL REQUIRED BUT NOT PROVIDED determination of diluted or adulterated urine specimens. The adulteration control is an important pre-screening test for drug-testing. (The adulteration tests are optional, customers can distinguish them from the pouch Timer or clock

This package insert applies to both multi-drug Cups with and without the adulteration. Therefore, some nformation on the performance characteristics of the product may not be relevant to your test. Please refer to Store at 4°C-30°C (40°F-86°F) in the sealed pouch up to the expiration date. the labels on the pouch and the printing on the test to identify which drugs are included in your test.

For in vitro diagnostic use only. It is intended for prescription use only.

Note: Any combination tests with Tramadol\*(TRA) or/and Synthetic Cannabis\*(K2) or/and Ethyl SPECIMEN COLLECTION Glucuronide\*(EtG) or/and Fentanyl\*(FTY) are intended for forensic use only.

### WHAT IS MULTI-DRUG URINE TEST CUP?

The Multi-Drug Urine Test Cup is an immunochromatographic assay for the qualitative determination of multiple drugs in human urine. It is intended for prescription use only.

## WHAT IS THE CUT-OFF VALUE AND APPROXIMATE DETECTION TIME?

Drug(Identifier)	Calibrator	Cut-off level	Minimum detection time	Maximum detection time
Amphetamine (AMP 500)	d-Amphetamine	500 ng/mL	2-7 hours	1-2 days
Amphetamine (AMP1000)	d-Amphetamine	1000 ng/mL	2-7 hours	1-2 days
Secobarbital (BAR)	Secobarbital	300 ng/mL	2-4 hours	1-4 days
Buprenorphine(BUP)	Buprenorphine	10 ng/mL	4 hours	1-3 days
Oxazepam (BZO)	Oxazepam	300 ng/mL	2-7 hours	1-2 days
Cocaine (COC 150)	Benzoylecgonine	150 ng/mL	1-4 hours	2-4 days
Cocaine (COC 300)	Benzoylecgonine	300 ng/mL	1-4 hours	2-4 days
Ethyl Glucuronide (EtG)	Ethyl Glucuronide	500 ng/ml	1-2 hours	Up to 3+ days
Fentanyl (FTY)	Norfentanyl	20 ng/mL	1-4 hours	1-3 days
Synthetic Cannabis (K2)	JWH-018 Pentanoic Acid JWH-073 Butanoic Acid	50 ng/mL 25 ng/mL	8-12hours	Up to 5+ days
Methylenedioxymethamp hetamine (MDMA)	3,4-Methylenedioxymetham phetamine HCI(MDMA)	500 ng/mL	2-7 hours	2-4 days
Methamphetamine (MET500/mAMP500)	D(+)-Methamphetamine	500 ng/mL	2-7 hours	2-4 days
Methamphetamine (MET1000/mAMP1000)	D(+)-Methamphetamine	1000 ng/mL	2-7 hours	2-4 days

Methadone (MTD) 100 ng/mL 4 hours Phencyclidine (PCP) 25 ng/mL 4-6 hours Propoxyphene 300 ng/mL 8-12hours 5-10days Propoxyphene (PPX) Nortriptyline 1000ng/mL 8-12hours 2-7 days Cannabinoids (THC) 11-nor-Δ9-THC-9-COOH 50 ng/mL 2 hours 200 ng/mL 8-12hours 3-7 days

## WARNINGS AND PRECAUTIONS

- This kit is for external use only. Do not swallow.
- Discard after first use. The test cannot be used more than once. Do not use test kit beyond expiry date.
- Do not use the kit if the pouch is punctured or not well sealed.
- Keep out of the reach of children.
- Do not read after 5 minutes.
- This kit is for in vitro diagnostic use.

- Test devices, one test in one pouch. One pouch containing a test and a desiccant. The desiccant is for storage purposes only, and is not used in the test procedures.
- Security sealed labels.
- Leaflet with instructions for use
- Adulteration & Adulteration Color Chart. (Provided with Kits including Adulterants.)

## STORAGE AND STABILITY

Keep away from direct sunlight, moisture and heat. DO NOT FREEZE.

## WHEN TO COLLECT URINE FOR THE TEST?

minimum/maximum detection time for each drug.

Collect the urine sample for the test in the minimum detection time after the suspected drug use. Exactly when the urine sample is collected is very important in detecting any drug of abuse. This is because each drug is cleared by the body and is detected in the urine at different times and rates. Please refer to the section "WHAT DRUGS-OF-ABUSE TESTS

## **HOW TO COLLECT URINE?**

1. Remove the test cup from the foil pouch by tearing at the notch and use it as soon as possible. Open the cap of the test cup and urinate directly into the test cup. Fill the cup to above 25mL mark. It's acceptable to have some extra sample. Wipe off any splashes or spills that may be on the outside of this cup.

IS THE CUT-OFF VALUE AND APPROXIMATE DETECTION TIME?" in this instruction for use for the

2. You may observe the temperature strip affixed on the test cup between 2 to 4 minutes to see if the urine is diluted by water or liquid other than urine. The temperature range from 32°C-38°C (90°F-100°F) is acceptable.

IMPORTANT: The residual urine sample in the test cup should be enough to reach the 25mL (see the Minimum Fill Volume scale on the cup label). The residual urine sample in the test cup is for your self-testing.

## TEST PROCEDURE

Test should be in room temperature 18°C-30°C (65°F-86°F)

### For Drug Test:

- 1. After the urine has been collected, re-cap the cup and place the test cup on a flat surface.
- 2. Start the timer. Peel the label from right to left and read the result with in 5 minutes. **Do not read** results after 5 minutes.



## For Drug and Adulteration Test:

- 1. After the urine has been collected, re-cap the cup and place the test cup on a flat surface.
- 2. Start the timer. Peel the label from right to left and read the result within 5 minutes. **Do not** read results after 5minutes
- For the adulteration strip(s),compare each reagent area to its corresponding color blocks on the color **TEST LIMITATIONS** chart and read at the times specified. Proper read time is critical for optimal results. If the results indicate adulteration, do not read the drug test results, obtain a new sample. Note: All reagent areas may be read between 1 - 2 minutes. Changes in color after 2 minutes are of no diagnostic value.



# To View Results

Note: Results after more than 5 minutes may be not accurate and should not be read.

### READING THE RESULTS

## ADULTERATION CONTROL:

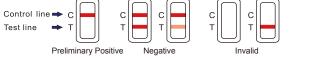
Semi-quantitative results are obtained by visually comparing the color of each pad with the corresponding color blocks on the enclosed color chart.

A rose-pink band is visible in each control region. No color band appears in the appropriate test region. It indicates a preliminary positive result for the corresponding drug of that specific test zone.

A rose-pink band is visible in each control region and the appropriate test region. It indicates that the concentration of the corresponding drug of that specific test zone is zero or below the detection limit of the

If a color band is not visible in each of the control region or a color band is only visible in each of the test region, the test is invalid. Another test should be run to re-evaluate the specimen. If test still fails, please contact the distributor or the store, where you bought the product, with the lot number.

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



A preliminary positive test result does not always mean a person took illegal drugs and a negative test result

does not always mean a person did not take illegal drugs. There are a number of factors that influence the

## reliability of drug tests. Certain drugs of abuse tests are more accurate than others. Amphetamine and the structurally related "designer" drugs are sympathomimetic amines whose biological

MPORTANT: The result you obtained is called preliminary for a reason. The sample should be tested by a laboratory in order to determine if a drug of abuse is actually present. Send any sample which does not give a negative result to a laboratory for further testing.

## What Is A False Positive Test?

The definition of a false positive test would be an instance where a substance is identified incorrectly by the Multi-Drug Urine Test Cup. The most common causes of a false positive test are cross reactants. Certain foods permanent damage to certain essential nerve structural in the brain. and medicines, diet plan drugs and nutritional supplements may cause a false positive test result with this

## What Is A False Negative Test?

The definition of a false negative test is that the initial drugis present but isn't detected by the Multi-Drug Urine Test Cup. If the sample is diluted, or the sample is adulterated that may cause false negative result.

- 1. This test has been developed for testing urine samples only. No other fluids have been evaluated. DO NOT use this device to test anything but urine.
- Adulterated urine samples may produce erroneous results. Strong oxidizing agents such as bleach (hypochlorite) can oxidize drug analytes. If a sample is suspected of being adulterated, obtain a new
- This test is a qualitative screening assay. It is not designed to determine the quantitative concentration of drugs or the level of intoxication.

Note: The test provides only preliminary test results. A more specific alternative chemical method should be used in order to obtain a confirmed analytical result. GC/MS is the preferred confirmatory method. Clinical consideration and professional judgment should be exercised with any drug of abuse test result, particularly when the preliminary result is positive.

### QUESTIONS AND ANSWERS

- What does the Drug of Abuse Urine Test do?
- These tests indicate if one or more prescription or illegal drugs are present in urine. These tests detect the presence of drugs such as marijuana, cocaine, opiates, methamphetamine, amphetamines, PCP, benzodiazepine, barbiturates, methadone, tricyclic antidepressants, ecstasy, and oxycodone.

The testing is done in two steps. First, you do a quick at-home test. Second, if the test suggests that drugs may be present, you send the sample to a laboratory for additional testing.

### The cut-off level is the specified concentration of a drug in a urine sample. Above that concentration the test is called positive, and below that concentration it is called negative.

## What are drugs of abuse?

Drugs of abuse are illegal or prescription medicines (for example, Oxycodone or Valium) that are taken for a non-medical purpose, including taking the medication for longer than your doctor prescribed it for or for a purpose other than what the doctor prescribed it for.

### How accurate is the test?

The tests are sensitive to drugs and are accurate. These tests, however, are not as accurate as lab tests. In some cases, certain foods and drugs may cause false positives as well as false negatives for those who use drug-testing kits.

### If the test results are negative, can the conclusion be that the person isfree of drugs? This means that if the sample was collected properly and if the test was performed according to direction, then probably none of the drug screened were present in the sample.

Does a preliminary positive screen test mean that drugs of abuse have been found? This means that the test has reacted with something in the sample and the sample should be sent to the lab for a more accurate test.

### What should I do, if the lab test confirms a positive result? If you have received a confirmed positive result, please consult with our staff on a proper course of

action. We will help you identify counselors who can help you. It is important that you remain calm and do not react in a negative way to the situation. If you do not believe the test result, please consult with your physician. They will have your background medical history and be able to provide you with detailed information on both the test and the meaning of the result

## properties. They are usually taken orally, intraveneously, or by smoking. Amphetamines are readily absorbed increased muscle tension and sweating. MDMA is not clearly a stimulant, although it has, in common with interaction. Abuse of propoxyphene can lead nausea, vomit, astriction, illusion, hallucination, heart poisoning, from the gastrointestinal tract and are then either deactivated by the liver or excreted unchanged in the urine amphetamine drugs, a capacity to increase blood pressure and heart rate. MDMA does produce some lung dropsy and even death. Propoxyphene is metabolized in the liver and excreted in urine as metabolized to deaminated (hippuric and benzoic acids) and hydroxylated metabolites. Methamphetamine is users. Its mechanism of action is thought to be via release of the neurotransmitter serotonin. MDMA may also propoxyphene use. partially metabolized to amphetamine and its major active metabolite. Amphetamines increase the heart rate release dopamine, although the general opinion is that this is a secondary effect of the drug (Nichols and and blood pressure, and suppress the appetite. Some studies indicate that heavy abuse may result in Oberlender, 1990). The most pervasive effect of MDMA, occurring in virtually all people who took a reasonable Nortriptyline (TCA)

## Secobarbital (BAR)

hours and can be detected in the urine for 1 to 4 days after use. Phenobarbital is a long acting barbiturate to enhanced stimulation of the central nervous system and induce euphoria, alertness, and a sense of the form of metabolites for up to ten days. derivative that has been used as a daytime sedative and very extensively as an anticonvulsant. Pentobarbital increased energy and power. More acute responses produce anxiety, paranoia, psychotic behavior, and and secobarbital are two examples of a short acting barbiturate sedative. Abuse of barbiturates can lead not cardiac dysrhythmias. The pattern of psychosis which may appear at half-life of about 15 hours and is excreted Cannabinoids (THC) only to impaired motor coordination and mental disorder, but also to respiratory collapse, coma and even death. in urine as amphetamine and oxidized as deaminated and hydroxylated derivatives. However, 40% of Cannabinoids is a hallucinogenic agent derived from the flowering portion of the hemp plant. The active Barbiturates are taken orally, rectally, or by intravenous and intramuscular injections. Short-acting barbiturates methamphetamine is excreted unchanged. Thus the presence of the parent compound in the urine indicates will generally be excreted in urine as metabolites, while the long-acting barbiturates will primarily appear methamphetamine use.

Buprenorphine is a potent analgesic often used in the treatment of opioid addiction. The drug is sold under the trade names Subutex<sup>TM</sup>, Buprenex<sup>TM</sup>, Temgesic<sup>TM</sup> and Suboxone<sup>TM</sup>; all of which contain Buprenorphine HCl 3 hours. Heroin is quickly metabolized to morphine. Thus, morphine and morphine glucuronide might both be alone or in combination with Naloxone HCI. Therapeutically, Buprenorphine is used as a substitution treatment found in the urine of a person who has taken only heroin. The body also changes codeine to morphine. Thus, for opioid addicts. A substitution treatment is a form of medical care offered to opiate addicts (primarily heroin the presence of morphine (or the metabolite, morphine glucuronide) in the urine indicates heroin, morphine addicts) based on a similar or identical substance to the drug normally used. In substitution therapy, and/or codeine use plasma half-life of Buprenorphine is 2-4 hours. While complete elimination of a single-dose of the drug can themorphine in urine exceeds 300ng/mL. take as long as 6 days, the detection window for the parent drug in urine is thought to be approximately 3 days.

## Benzodiazepines are the most widely used anxiolytic drugs. They are used extensively as anti-anxiety agents,

hypnotics, muscle relaxants and anti-convulsants. They are taken orally or sometimes by injection and have a Overdose of methadone may cause coma or even death. It is administered orally or intravenously and is wide range of half-life from 2 to 40 hours. They can generally be detected for 1 to 2 days after metabolized in the liver and excreted in urine as methadone, EDDP, EMDA and methadol. The kinneys are a PRINCIPLE Benzodiazepines use. Benzodiazepines are metabolized in the liver. Some Benzodiazepines and their major route of methadone excretion. Methadone has a biological half-life of 15 to 60 hours. metabolites are excreted in the urine. Their use can result in drowsiness and/or confusion. Benzodiazepines potentiate alcohol and other CNS depressants. Psychological and physical dependence on benzodiazepines Opiate (OPI) can develop if high doses of the drug are given over a prolonged period.

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

### Ethyl Glucuronide (EtG)

intake, even after alcohol is no longer measurable. Traditional laboratory methods detect the actual alcohol in the body, which reflects current intake within the past few hours (depending on how much was consumed). The Oxycodone is known as Oxycontin and Roxicodone. It is an ingredient of Percodan, Percocet, Roxicet and binding to the respective drug-protein conjugate immobilized in the Test Region (T) of the device. This prevents presence of EtG in urine is a definitive indicator that it can be detected in the urine for 3 to 4 days after drinking alcohol, even alcohol is eliminated from the body. Therefore, EtG is a more accurate indicator of the recent

## Fentanyl (FTY)

Fentanyl is a potent, synthetic narcotic analgesic with a rapid onset and short duration of action. It was first

Oxycodone is metabolized by N- and O-demethylation. One of the metabolites, oxymorphone, is a potent

Users should follow the appropriate federal, state, and local guidelines concerning the frequency of assaying combination with a benzodiazepine. Fentanyl is frequently given intrathecally as part of spinal anesthesia or of noroxycodone. The detection time window of Oxycodone is 1-3 days following use. epidurally for epidural anesthesia and analgesia.

Ethyl Glucuronideis a direct metabolite of alcohol. Presence in urine may be used to detect recent alcohol

## Synthetic cannabis (K2)

Spice. Synthetic cannabis act on the body in a similar way to cannabinoids naturally found in cannabis, such "crystal cyclone," etc. phencyclidine can be administered orally, by nasal ingestion, smoking, or by intravenous cannabis a designer drug Although synthetic cannabis does not produce positive results in drug tests for overdose typically reduces its half-life from three days to one day.

## cannabis, it is possible to detect its metabolites in human urine

### Methylenedioxymethamphetamine (MDMA)

dose of the drug, was to produce a clenching of the jaws.

Methamphetamine (MET/mAMP)

Methylenedioxymethamphetamine (ecstasy) is a designer drug first synthesized in 1914 by a German drug analgesic used to relieve mild to moderate pain. The principal metabolities are nordextropropoxyphene. The categories: drug-free, less than half the cutoff, near cutoff positive, and high positive. effects include potent central nervous system (CNS) stimulation, anorectic, hyperthemic, and cardiovascular company for the treatment of obesity. Those who take the drug frequently report adverse effects, such as combination usage of propoxyphene, aspirin, acetaminophen or other sedatives can lead cooperative Results were as follows: with a half life of about 12 hours. It can be detected in the urine for 1 to 2 days after use. Amphetamine is perceptual changes in the form of increased sensitivity to light, difficulty in focusing, and blurred vision in some nordextropropoxyphene. Thus the presence of the propoxyphene or its metabolites in the urine indicates

Propoxyphene (PPX)

TCA (Tricyclic Antidepressants) are commonly used for the treatment of depressive disorders. TCA overdoses can result in profound central nervous system depression, cardiotoxicity and anticholinergic effects, TCA overdose is the most common cause of death from prescription drugs. TCAs are taken orally or sometimes by Barbiturates are a class of central nervous system depressions. They have a wide range of half-life of 2 to 40 Methamphetamine is a potent sympathomimetic agent with therapeutic applications. Acute higher doses lead injection. TCAs are metabolized in the liver. Both TCAs and their metabolites are excreted in urine mostly in

ingredients in Cannabinoids, THC&Cannabinol can be metabolized and excreted as 11-nor-Δ9-tetrahydrocannabinol-9-carboxylic acid with a half-life of 24 hours. It can be detected for 1 to 5 days after use. Smoking is the primary method of use of Cannabinoids/cannabis. Higher doses used by abusers produce central nervous system effects, altered mood and sensory perceptions, loss of coordination, impaired The opiates such as heroin, morphine, and codeine are derived from the resin of opium poppy. The principal short-term memory, anxiety, paranoia, depression, confusion, hallucinations and increased heart rate. A metabolites of opiates are morphine, morphine-3-glucuronide normorphine and codeine with a half-life of about tolerance to the cardiac and psychotropic effects can occur, and withdrawal syndrome produces restlessness,

## Tramadol (TRA)

Buprenorphine is as effective as Methadone but demonstrates a lower level of physical dependence. The The test for Morphine (MOP/OPI300) of the Multi-Drug Urine Test Cup yields a positive result when moderate to moderately severe pain. It is a synthetic analog of the phenanthrene alkaloid codeine and, as such, is an opioid and also a prodrug (codeine is metabolized to morphine, tramadol is converted to O-desmethyltramadol). Tramadol and its metabolites are excreted primarily in the urine with observed plasma half-lives of 6.3 and 7.4 hours for tramadol and O-desmethyltramadol(denoted M1) respectively Methadone is a synthetic analgesic drug that is originally used in the treatment of narcotic addicts. Among the Approximately 30% of the dose is excreted in the urine as unchanged drug, whereas 60% of the dose is

codeine, and the semi-synthetic drugs such as heroin. Opioid is more general, referring to any drug that acts on the opioid receptor. Opioid analgesics comprise a large group of substances which control pain by When the absorbent end is immersed into urine specimen, the urine is absorbed into the device by capillary depressing the central nervous system. Large doses of morphine can produce higher tolerance levels, action, mixes with the respective drug monoclonal antibody conjugate, and flows across the pre-coated physiological dependency in users, and may lead to substance abuse. Morphine is excreted unmetabolized, membrane. When sample drug levels are zero or below the target cutoff (the detection sensitivity of the test), and is also the major metabolic product of codeine and heroin. Morphine is detectable in the urine for several respective drug monoclonal antibody conjugate binds to the respective drug-protein (duck egg) conjugate

### The test for Morphine 2000 (OPI) of the Multi-Drug Urine Test Cup yields a positive result when themorphine in intensity, indicates a negative result. urine exceeds 2000 ng/mL.

Tylox. Oxycodone is a semi-synthetic opiates derived from opium. Like other opiates, Oxycodone is the development of a distinct colored band in the test region, indicating a potentially positive result. characterized by its analegestic properties, and the tendency for users to form a physical dependency and intake of alcohol than measuring for the presence of alcohol itself. The EtG test can aid in the diagnosis of develop tolerance with extended use. Oxycodone is usually administered in combination with non-opiate To serve as a procedure control, a colored line will appear at the Control Region (C), where the Goat anti drunk driving and alcoholism, which has important significance in the forensic identification and medical analegesics such as acetaminophen and salicylates for the relief of moderate to severe pain. Oxycodone is a mouse IgG polyclonal antibody immobilized in, if the test has been performed properly. central nervous system depressant that may cause drowsiness, dizziness, lethargy, weakness and confusion. Toxicity in an overdose of Oxycodone can lead to stupor, coma, muscle flaccidity, severe respiratory QUALITY CONTROL depression, hypotension, and cardiac arrest.

synthesized by Janssen Pharmaceutica (Belgium) in the late 1950s, and It is approximately 100 times more actica analgesic, while the other, noroxycodone, is relatively inactive. Between 33 to 61% of a single dose of external quality control materials. potent than morphine. Fentanyl is a strong agonist at the μ-opioid receptors. Historically it has been used to
Oxycodone is excreted in a 24 hour urine collection and consists of 13-19% free Oxycodone, 7-29% treat breakthrough pain and is commonly used in pre-procedures as a pain reliever as well as an anesthetic in glucuronide conjugated Oxymorphone and an unknown amount Even though there is an internal procedural control line in the test device in the Control Region, the use of

Synthetic cannabis is a psychoactive designer drug derived of natural herbs sprayed with synthetic chemicals tranquilzer. Phencyclidine can produce hallucinations, letharqy, disorientation, loss of coordination, trance-like operator and monthly to determine that tests are working properly. This will ensure that the end user has clear that, when consumed, allegedly mimic the effects of cannabis. It is best known by the brand names K2 and ecstatic states, a sense of euphoria and visual distortions, it has many street names, such as "angel dust" and as THC. A large and complex variety of synthetic cannabis most often cannabicyclohexanol, JWH-018, injection. It is metabolized in the liver and excreted through the kidneys in urine in unchanged form and JWH-073, or HU-210, are used in an attempt to avoid the laws that make cannabis illegal, making synthetic oxidized metabolites with a half life of about 12 hours. Suction and urinary acidification in the treatment of

## Tramadol [2-(dimethylaminomethyl)-1-(3-methoxyphenyl)cyclohexanol] is used similarly to codeine, to treat

psychological effects induced by using methadone are analgesia, sedation and respiratory depression. excreted as metabolites.

The Multi-Drug Urine Test Cup is a competitive immunoassay that is used to screen for the presence of drugs of abuse in urine. It is chromatographic absorbent device in which drugs in a sample competitively combined to Opiate refers to any drug that is derived from the opium poppy, including the natural products, morphine and a limited number of drug monoclonal antibody (mouse) conjugate binding sites.

immobilized in the Test Region (T) of the device. This produces a colored Test line that, regardless of its

When sample drug levels are at or above the target cutoff, the free drug in the sample binds to the respective drug monoclonal antibody conjugate preventing the respective drug monoclonal antibody conjugate from

external controls is strongly recommended as good laboratory testing practice to confirm the test procedure and to verify proper test performance. Positive and negative controls should give the expected results. When testing the positive and negative controls, the same assay procedure should be adopted. External Control Phencyclidine is an arylcyclohexylamine that was originally used as an anesthetic agent and a veterinary (positive and negative) should be run with each new lot of test received, each new shipment, each new understanding of when to perform quality control testing.

1760 (eighty of each drug)clinical urine specimens were analyzed by GC-MS and by each corresponding drug Propoxyphene, a synthetic opiate agonist, is structurally similar to methadone. Propoxyphene is a narcotic of abuse Test. Each test was read by three viewers. Samples were divided by concentration into five

GC/MS

-free than half Cutoff Cutoff Positive

the cutoff Negative Positive (greater

concentr (Betwee (Betwee than 50%

ation by n 50% n the above the

analysis the cutoff and 50% concentra

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				analysis	the cutoff	and 50%	concentra	
					and the	above	tion)	
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					concentr	concentr		
					ation)	ation)		
AMP	Viewer	+	0	0	1	10	29	97.5% (84.5% - 100%)
(500)	Α	-	10	18	11	1	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	9	29	95% (84.5% - 100%)
	В	-	10	18	10	2	0	95% (79.5% - 100%)
	Viewer	+	0	0	1	10	29	97.5% (84.5% - 100%)
	С	-	10	18	11	1	0	97.5% (79.5% - 100%)
AMP	Viewer	+	0	0	1	11	29	100% (84.5% - 100%)
(1000)	Α	-	10	18	11	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	11	29	100% (84.5% -100%)
	В	-	10	18	10	0	0	95%(79.5% - 100%)
	Viewer	+	0	0	2	11	29	100% (84.5% -100%)
	С	-	10	18	10	0	0	95%(79.5% - 100%)
BAR	Viewer	+	0	0	2	20	20	100% (84.5% -100%)
	Α	_	10	10	18	0	0	95%(79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% -100%)
	В	-	10	10	18	0	0	95%(79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% -100%)
	C	-	10	10	18	0	0	95%(79.5% - 100%)
BZO	Viewer	+	0	0	2	20	20	
BZU		+						100% (84.5% -100%)
	A	-	10	10	18	0	0	95%(79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% -100%)
	В	-	10	10	18	0	0	95%(79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% -100%)
	С	-	10	10	18	0	0	95%(79.5% - 100%)
COC	Viewer	+	0	0	1	11	29	100% (84.5% - 100%)
(150)	Α	-	10	10	19	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	11	29	100% (84.5% - 100%)
	В	-	10	10	18	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	2	11	29	100% (84.5% - 100%)
	С	-	10	10	18	0	0	95% (79.5% - 100%)
COC	Viewer	+	0	0	2	11	29	100% (84.5% -100%)
(300)	Α	-	10	10	18	0	0	95%(79.5% - 100%)
	Viewer	+	0	0	1	11	29	100% (84.5% - 100%)
	В	-	10	10	19	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	11	29	100% (84.5% - 100%)
	С	-	10	10	18	0	0	95% (79.5% - 100%)
EtG	Viewer	+	0	0	0	17	21	95% (79.5% - 100%)
	Α	-	10	12	18	2	0	100% (84.5% - 100%)
	Viewer	+	0	0	0	18	21	97.5% (82% - 100%)
	В		10	12	18	1	0	100% (84.5% - 100%)
	Viewer	+	0	0	0	18	21	97.5% (82% - 100%)
	C		10	12	18	1	0	100% (84.5% - 100%)
FTY	Viewer	+	0	0	10	18	22	100% (84.5% - 100%)
	A	-	10	12	17	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	17	18	22	
	viewer B	+						100% (84.5% - 100%)
			10	12	17	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	1 1	18	22	100% (84.5% - 100%)
	C	-	10	12	17	0	0	97.5% (82% - 100%)
MET	Viewer	+	0	0	1	20	20	100% (84.5% - 100%)
(mAMP)	Α	-	10	16	13	0	0	97.5% (82% - 100%)
(500)	Viewer	+	0	0	2	20	20	100% (184.5% - 100%)
	В	-	10	16	12	0	0	95% (79.5% - 100%)

	Viewer	+ 0	0	1	20	20	100% (84.5% - 100%)	I A	A	- 10	12	17	0	0	_	32% - 100%)		300	50	0/50	0/50	0/50		375	50	0/50
	C	- 10	16	13	0	0	97.5% (82% - 100%)		ewer	+ 0	0	0	17	22	_ `	32% - 100%)	COC	0	50	50/0	50/0	50/0		450	50	0/50
ET AMP	Viewer	+ 0	0	1	20	20	100% (84.5% - 100%)	_	В	- 10	12	18	1 45	0	_	4.5% - 100%)	(300)	75	50	50/0	50/0	50/0		525	50	0/50
000)	A /inver	- 10 + 0	16 0	13	0 20	20	97.5% (82% - 100%) 100% (l84.5% - 100%)	VIE	ewer	+ 0 - 10	12	18	15 3	0	_ `	7% - 100%) 4.5% - 100%)		150 225	50 50	50/0 50/0	50/0 50/0	50/0 50/0	MTD	600 0	50 50	0/50 50/0
000)	Viewer R	- 10	16	12	0	0	95% (79.5% - 100%)	TRA Vie	ewer	+ 0	0	2	19	21		4.5% - 100%) 4.5% - 100%)		300	50	6/44	5/45	5/45	IVITO	75	50	50/0
	Viewer	+ 0	0	2	20	20	100% (84.5% - 100%)		A	- 10	20	8	0	0	_	.5% - 100%)		375	50	0/44	0/50	0/50		150	50	50/0
	C	- 10	16	12	0	0	95% (79.5% - 100%)		ewer	+ 0	0	2	19	21		4.5% - 100%)		450	50	0/50	0/50	0/50		225	50	50/0
DMA	Viewer	+ 0	0	2	20	20	100% (84.5% - 100%)		В	- 10	20	8	0	0		.5% - 100%)		525	50	0/50	0/50	0/50		300	50	5/45
	A	- 10	10	18	0	0	95% (79.5% - 100%)	Vie	ewer	+ 0	0	1	19	21		4.5% - 100%)		600	50	0/50	0/50	0/50		375	50	0/50
	Viewer	+ 0	0	2	20	20	100% (84.5% - 100%)		С	- 10	20	9	0	0	_ `	32% - 100%)	EtG	0	50	50/0	50/0	50/0		450	50	0/50
	В	- 10	10	18	0	0	95% (79.5% - 100%)					•				<u> </u>		125	50	50/0	50/0	50/0		525	50	0/50
	Viewer	+ 0	0	2	20	20	100% (84.5% - 100%)	Precision	and Se	nsitivity								250	50	50/0	50/0	50/0		600	50	0/50
	С	- 10	10	18	0	0	95% (79.5% - 100%)											375	50	50/0	50/0	50/0	OPI	0	50	50/0
JP	Viewer	+ 0	0	1	16	24	100% (84.5% - 100%)			precision and se								500	50	5/45	4/46	5/45		500	50	50/0
	Α	- 10	18	11	0	0	97.5% (82% - 100%)			off - 75%, cutoff								625	50	0/50	0/50	0/50		1000	50	50/0
	Viewer	+ 0	0	1	16	24	100% (84.5% - 100%)			I concentrations								750	50	0/50	0/50	0/50		1500	50	50/0
	В	- 10	18	11	0	0	97.5% (82% - 100%)			ising three diffe study of the cor								875	50	0/50	0/50	0/50		2000	50	5/45
	Viewer	+ 0	0	2	16	24	100% (84.5% - 100%)			n for each lot pe								1000	50	0/50	0/50	0/50		2500	50	0/50
	С	- 10	18	10	0	0	95% (79.5% - 100%)			ng drug of abuse		, aday), 101 a 101	0. 00 00.		ро. солост	aradon por roc	FTY	0	50	50/0	50/0	50/0		3000	50	0/50
OP	Viewer	+ 0	0	2	20	20	100% 84.5% - 100%)											5	50	50/0	50/0	50/0		3500	50	0/50
PISU	Α	- 10	19	9	0	0	95% (79.5% - 100%)	Drug tes	st	Approxim	ate	Number o	f		Results			10	50	50/0	50/0	50/0	DOD	4000	50	0/50
	Viewer B	+ 0	0	2	20	20	100% (84.5% - 100%)		(	concentration o	of sample	determination	ons	Ne	gative/ Positi	ve		15	50 50	50/0	50/0	50/0	PCP	0	50	50/0
	Viewer	- 10 + 0	19 0	9	20	20	95% (79.5% - 100%) 100% (84.5% - 100%)			(ng/mL	)	per lot		ot 1	Lot 2	Lot 3		20 25	50	4/46 0/50	5/45 0/50	5/45 0/50		6.25 12.5	50 50	50/0 50/0
	C	- 10	19	10	0	0	97.5% (82% - 100%)	AMP		0		50		0/0	50/0	50/0		30	50	0/50	0/50	0/50		18.75	50	50/0
TD	Viewer	+ 0	0	10	19	21	100% (84.5% - 100%)	(500)	_	125		50		0/0	50/0	50/0		35	50	0/50	0/50	0/50		25	50	6/44
10	A	- 10	12	17	0	0	97.5% (82% - 100%)		_	250		50		0/0	50/0	50/0		40	50	0/50	0/50	0/50		31.25	50	0/44
	Viewer	+ 0	0	2	19	21	100% (84.5% - 100%)		_	375		50		0/0	50/0	50/0	MET	0	50	50/0	50/0	50/0		37.5	50	0/50
	В	- 10	12	16	0	0	95% (79.5% - 100%)		$\vdash$	500 625		50 50		0/0	5/45 50/0	4/46	(mAMP)	125	50	50/0	50/0	50/0		43.75	50	0/50
	Viewer	+ 0	0	1	19	21	100% (84.5% - 100%)		-	750		50		/50	0/50	0/50 0/50	(500)	250	50	50/0	50/0	50/0		50	50	0/50
	С	- 10	12	17	0	0	97.5% (82% - 100%)			875		50		/50	0/50	0/50		375	50	50/0	50/0	50/0	TCA	0	50	50/0
PI	Viewer	+ 0	0	1	18	22	100% (84.5% - 100%)			1000		50		/50	0/50	0/50		500	50	4/46	5/45	5/45		250	50	50/0
	Α	- 10	20	9	0	0	97.5% (82% - 100%)	AMP		0		50		0/0	50/0	50/0		625	50	0/50	0/50	0/50		500	50	50/0
	Viewer	+ 0	0	1	18	22	100% (84.5% - 100%)	(1000)		250		50	_	0/0	50/0	50/0		750	50	0/50	0/50	0/50		750	50	50/0
	В	- 10	20	9	0	0	97.5% (82% - 100%)	(1000)		500		50		0/0	50/0	50/0		875	50	0/50	0/50	0/50		1000	50	6/44
	Viewer	+ 0	0	1	18	22	100% (84.5% - 100%)			750		50		0/0	50/0	50/0		1000	50	0/50	0/50	0/50		1250	50	0/50
	С	- 10	20	9	0	0	97.5% (82% - 100%)			1000		50	_	/45	6/44	6/44	MET	0	50	50/0	50/0	50/0		1500	50	0/50
CP	Viewer	+ 0	0	1	18	22	100% (84.5% - 100%)			1250		50	0	/50	0/50	0/50	(mAMP)	250	50	50/0	50/0	50/0		1750	50	0/50
	Α	- 10	13	16	0	0	97.5% (82% - 100%)			1500		50	0.	/50	0/50	0/50	(1000)	500	50	50/0	50/0	50/0		2000	50	0/50
	Viewer	+ 0	0	2	18	22	100% (84.5% - 100%)			1750		50	0.	/50	0/50	0/50		750	50	50/0	50/0	50/0	THC	0	50	50/0
	В.	- 10	13	15	0	0	95% (79.5% - 100%)			2000		50	0	/50	0/50	0/50		1000	50	5/45	6/44	4/46		12.5	50	50/0
	Viewer C	+ 0	0 13	1	18	22	100% (84.5% - 100%) 97.5% (82% - 100%)	BAR		0		50		0/0	50/0	50/0		1250	50 50	0/50	0/50	0/50		25.0 37.5	50	50/0
٠,	Viewer	- 10 + 0	0	16 1	0 10	30	100% (84.5% - 100%)			75		50		0/0	50/0	50/0		1500 1750	50	0/50 0/50	0/50 0/50	0/50 0/50		50.0	50 50	50/0 4/46
<b>-</b>	Δ	- 10	19	10	0	0	97.5% (82% - 100%)			150		50		0/0	50/0	50/0		2000	50	0/50	0/50	0/50		62.5	50	0/50
	Viewer	+ 0	0	2	10	30	100% (84.5% - 100%)		_	225		50		0/0	50/0	50/0	MDMA	0	50	50/0	50/0	50/0		75.0	50	0/50
	B	- 10	19	9	0	0	95% (79.5% - 100%)		_	300		50		/45	5/45	6/44	MIDMA	125	50	50/0	50/0	50/0		87.5	50	0/50
	Viewer	+ 0	0	1	10	30	100% (84.5% - 100%)		-	375		50		/50	0/50	0/50		250	50	50/0	50/0	50/0		100.0	50	0/50
	С	- 10	19	10	0	0	97.5% (82% - 100%)		-	450 525		50 50	_	/50 /50	0/50 0/50	0/50 0/50		375	50	50/0	50/0	50/0	OXY	0	50	50/0
Ю	Viewer	+ 0	0	1	18	22	100% (84.5% - 100%)			600		50		/50	0/50	0/50		500	50	7/43	6/44	5/45		25	50	50/0
	Α	- 10	12	17	0	0	97.5% (82% - 100%)	BZO		000		50		0/0	50/0	50/0		625	50	0/50	0/50	0/50		50	50	50/0
	Viewer	+ 0	0	1	18	22	100% (84.5% - 100%)			75		50		0/0	50/0	50/0		750	50	0/50	0/50	0/50		75	50	50/0
	В	- 10	12	17	0	0	97.5% (82% - 100%)			150		50		0/0	50/0	50/0		875	50	0/50	0/50	0/50		100	50	4/46
	Viewer	+ 0	0	1	18	22	100% (84.5% - 100%)	1		225		50		0/0	50/0	50/0		1000	50	0/50	0/50	0/50		125	50	0/50
	С	- 10	12	17	0	0	97.5% (82% - 100%)			300		50	6	/44	5/45	6/44	BUP	0	50	50/0	50/0	50/0		150	50	0/50
XY	Viewer	+ 0	0	1	19	21	100% (84.5% - 100%)			375		50	0	/50	0/50	0/50		2.5	50	50/0	50/0	50/0		175	50	0/50
	Α	- 10	20	9	0	0	97.5% (82% - 100%)			450		50	0.	/50	0/50	0/50		5.0	50	50/0	50/0	50/0	150	2000	50	0/50
	Viewer	+ 0	0	1	19	21	100% (84.5% - 100%)			525		50	0	/50	0/50	0/50		7.5	50	50/0	50/0	50/0	K2	0	50	50/0
	B	- 10	20	9	0	0	97.5% (82% - 100%)			600		50	_	/50	0/50	0/50		10.0	50 50	5/45	5/45	6/44	JWH-018 Pentanoic	12.5	50 50	50/0
	Viewer C	+ 0	0	9	19 0	21	100% (84.5% - 100%)	COC (150)	)	0		50		/50	0/50	0/50		12.5 15.0		0/50	0/50	0/50	Acid	25.0 37.5		50/0
PΧ	Viewer	- 10 + 0	20 0	2	20	20	97.5% (82% - 100%) 100% (84.5% -100%)			37.5		50		0/0	50/0	50/0		15.0 17.5	50 50	0/50 0/50	0/50 0/50	0/50 0/50	71010	37.5 50.0	50 50	50/0 5/45
^	A	- 10	10	18	0	0	95%(79.5% - 100%)			75		50	_	0/0	50/0	50/0		20.0	50	0/50	0/50	0/50		62.5	50	0/50
	Viewer	+ 0	0	2	20	20	100% (84.5% -100%)		<u> </u>	112.5		50		0/0	50/0	50/0	MOP/OPI300	0	50	50/0	50/0	50/0		75.0	50	0/50
	B	- 10	10	18	0	0	95%(79.5% - 100%)		<u> </u>	150		50	_	/45	5/45	5/45	MOI /OF 1300	75	50	50/0	50/0	50/0		87.5	50	0/50
	Viewer	+ 0	0	2	20	20	100% (84.5% -100%)		-	187.5		50		/50	0/50	0/50		150	50	50/0	50/0	50/0		100.0	50	0/50
	C	- 10	10	18	0	0	95%(79.5% - 100%)		-	225 262.5		50 50		/50 /50	0/50 0/50	0/50 0/50		225	50	50/0	50/0	50/0	K2	0	50	50/0
2	Viewer	+ 0	0	1	18	22	100% (84.5% -100%)			202.5		50	1 0/	/50	0/30	U/OU		300	50	7/43	5/45	6/44	JWH-073	6.25	50	50/0
						•													•							

Butanoic	12.5	50	50/0	50/0	50/0	S
Acid	18.75	50	50/0	50/0	50/0	1 4
	25	50	5/45	6/44	6/44	1 4
	31.25	50	0/50	0/50	0/50	
	37.5	50	0/50	0/50	0/50	] E
	43.75	50	0/50	0/50	0/50	E
	50	50	0/50	0/50	0/50	] E
PPX	0	50	50/0	50/0	50/0	
	75	50	50/0	50/0	50/0	F
	150	50	50/0	50/0	50/0	l F
	225	50	50/0	50/0	50/0	
	300	50	6/44	5/45	5/45	
	375	50	0/50	0/50	0/50	7
	450	50	0/50	0/50	0/50	a
	525	50	0/50	0/50	0/50	E
	600	50	0/50	0/50	0/50	E
TRA	0	50	50/0	50/0	50/0	
	50	50	50/0	50/0	50/0	
	100	50	50/0	50/0	50/0	
	150	50	50/0	50/0	50/0	
	200	50	4/46	6/44	5/45	
	250	50	0/50	0/50	0/50	
	300	50	0/50	0/50	0/50	
	350	50	0/50	0/50	0/50	
	400	50	0/50	0/50	0/50	

## Specificity and Cross Reactivity

To test the specificity of the test, the test device was used to test various drugs, drug metabolites and other components of the same class that are likely to be present in urine. All the components were added to drug-free normal human urine. The following structurally related compounds produced positive results with the test when tested at levels equal to or greater than the concentrations listed below.

	(ng/mL)		(ng/r
Amphetamine (AMP500)		Methamphetamine (MET500/mAMP500)	
d-Amphetamine	500	D(+)-Methamphetamine	500
d.l-Amphetamine	1500	MDMA	10,0
1-Amphetamine	25,000	MDEA	100,
(+/-) 3,4-methylenedioxyamphetamine (MDA)	2500	Methamphetamine (MET1000/mAMP1000)	
Phentermine	1500	D(+)-Methamphetamine	1,00
Phenylpropanolamine	1500	D-Amphetamine	50,0
d-methamphetamine	>50,000	Chloroquine	50,0
I-methamphetamine	>50,000	(+/-)-Ephedrine	50,0
3,4-Methylenedioxyethylamphetamine(MDE)	50,000	(-)-Methamphetamine	25,0
(+/-)3,4-methylenedioxumethamphetam ine (MDMA)	50,000	(+/-)3,4-methylenedioxumethamphetam ine(MDMA)	2,00
Amphetamine (AMP1000)		β-Phenylethylamine	50,0
d-Amphetamine	1,000	Trimethobenzamide	10,0
d.l-Amphetamine	3,000	I-Methamphetamine	8,00
1-Amphetamine	50,000	3,4-Methylenedioxyamphetamine (MDA)	3,00
(+/-) 3,4-methylenedioxyamphetamine (MDA)	5,000	3,4-Methylenedioxyethylamphetamine( MDE)	600
Phentermine	3,000	Methylenedioxymethamphetamine (MDMA)	
Phenylpropanolamine	3,000	3,4-Methylenedioxymethamphetamine HCI (MDMA)	500
d-methamphetamine	>100,000	3,4-Methylenedioxyamphetamine HCI (MDA)	3,00
l-methamphetamine	>100,000	3,4-Methylenedioxyethylamphetamine (MDE)	300
3,4-Methylenedioxyethylamphetamine( MDE)	100,000	D-Methamphetamine	8,00
(+/-)3,4-methylenedioxumethamphetam ine(MDMA)	100,000	L-Methamphetamine	10,0
Barbiturates (BAR)		Morphine (MOP/OPI300)	

Bulabarbilai	75	пушгосоцопе	5,000	Effect of Officery Specific Grav
Butathal	100	Hydromorphone	5,000	
Butalbital	5,000	Morphine-3-β-d-glucuronide	1,000	12 urine samples with density ra
Cyclopentobarbital	600	σ-Monoacetylmorphine	400	25% above cutoff level. Each s
Pentobarbital	5,000	Oxycodone	25,000	Three laboratory assistants rea
Phenobarbital	10,000	Oxymorphone	10,000	demonstrate that varying ranges
Benzodiazepines (BZO)		Thebaine	30,000	Effect of University PU
Oxazepam	300	Opiate (OPI)		Effect of Urinary PH
Alprazolam	200	Morphine	2,000	The pH of an aliquot negative u
a-Hydroxyalprazolam	1,500	Codeine	2,000	spiked with each drug at 25%
Benzodiazepine	100	Ethylmorphine	5,000	batches of the corresponding dru
Bromazepam	1,500	Heroin	2,000	corresponding drug of abuse te
Chlordiazepam	10,000	Hydrocodone	12,500	the performance of the test.
Chlordiazepoxide	1,500	Hydromorphine	5,000	·
Clonazepam HCI	800	Levorphanol	75,000	Interfering Substances
Clobazam	100	σ-Monoacetylmorphine	5,000	_
Clonazepam	5,000	Morphine 3-b-D-glucuronide	2,000	Clinical urine samples may cont
Clorazepate dipotassium	200	s-Monoacetylmorphine	5,000	compounds were added to drug-
Delorazepam	1,500	Norcodeine	12,500	with a drug concentration 25%
Desalkylflurazepam	400	Normorphone	50,000	interferents were added at a con
Diazepam	200	Oxycodone	25,000	from the expected results.
Estazolam	2,500	Oxymorphine	25,000	A4i
Flunitrazepam	400	Procaine	150,000	Acetominophen Acetophenetidin
Hydroxyalprazolam	1,500	Thebaine	100,000	Acetylsalicylic acid
D,L-Lorazepam	1,500	Oxycodone(OXY)		Acetylsalicylic acid
Lorazepam	2,000	Oxycodone	100	Aminopyrine
Midazolam	12,500	Dihydrocodeine	20,000	Amoxicillin
Nitrazepam	100	Codeine	100,000	Ampicillin
Norchlordiazepoxide	200	Hydromorphone	100,000	•
Nordiazepam	400	Morphine	>100,000	Apomorphine
Temazepam	100	Acetylmorphine	>100,000	
Triazolam	1,000	Buprenorphine	>100,000	Aspartame
Buprenorphine(BUP)		Ethylmorphine	>100,000	Aspirin
Buprenorphine	10	Phencyclidine (PCP)		Atropine
Buprenorphine -3-D-Glucuronide	15	Phencyclidine	25	
Norbuprenorphine	20	4-Hydroxyphencyclidine	12,500	Benadryl
Norbuprenorphine 3-D-Glucuronide	200	Phencyclidine morpholine	50	Benzilic acid
Cannabinoids (THC)		Propoxyphene (PPX)		Benzoic acid
11-nor-Δ9-THC-9-COOH	50	d-Norpropoxyphene	300	Benzoylecgonine (except COC
11-nor-Δ8-THC-9-COOH	30	Synthetic Cannabis (K2)		test)
11-hydroxy-∆9-Tetrahydrocannabinol	2,500	JWH-018 Pentanoic Acid	50	Bilirubin
Δ8- Tetrahydrocannabinol	7,500	JWH-073 Butanoic Acid	25	Billidolli
Δ9- Tetrahydrocannabinol	10,000	JWH-018 N-4-hydroxypentyl	2,000	
Cannabinol	100,000	JWH-018 (Spice Cannabinoid)	1,000	
Cannabidiol	100,000	JWH-018 4-Hydroxypentyl	1,000	Cannabidiol (except THC,
<u> </u>		metabolite-D5 (indole-D5)		OXY tests)
Cocaine (COC150)		JWH-073 (Spice Cannabinoid)	2,000	Captopril

73 3-Hydroxybutyl metabolite

210 5-Hydroxypentyl metabolit

2201 4-Hydroxypentyl metabolite

/H-122 N-4-hydroxypentyl

icyclic Antidepressants (TCA

Cocaine (COC300)

Ethyl Glucuronide (Et

Methadone (MTD)

VH-073 3-Hvdroxvbutvl metabolite-D51.00

	Prometnazine	25,000	
		Diclofenac	
	Tramadol	200	
Specific Gravity			Diflunisal
vith density ranges (1.	.005-1.025) are collected and spiked with eac	h drug at 25% below and	

6 above cutoff level. Each sample was tested by three batches of the corresponding drug of abuse test. ree laboratory assistants read the result per batch of the corresponding drug of abuse test. The results monstrate that varying ranges of urinary specific gravity do not affect the test result. D L-Tryptophan (except AMP,

## ect of Urinary PH

e pH of an aliquot negative urine pool is adjusted to a pH range of 4 to 9 in 1 pH unit increments and D,L-Octopamine ked with each drug at 25% below and 25% above cutoff levels. Each sample was tested by three tches of the corresponding drug of abuse test. Three laboratory assistants read the result per batchof the DL-Propranolol responding drug of abuse test. The result demonstrates that varying range of PH do not interfere with DL-Tyrosine performance of the test. D-Norpropoxyphene D-Propoxyphene (except OXY

## erfering Substances

Chloralhydrate

Chlorothiazide

Clarithromycin

Codeine (except

MOP/OPI300, OPI tests)

Dextromethorphan

Clonidine

(-) Cotinine

nical urine samples may contain substances that could potentially interfere with the test. The following npounds were added to drug-free urine, urine with a drug concentration 25% below the cutoff, and urine h a drug concentration 25% above the cutoff for the corresponding drug of abuse test. All potential erferents were added at a concentration of 100 µg/mL. None of the urine samples showed any deviation n the expected results.

minophen	Dopamine HCI(except AMP test)	Noscapine
phenetidin	Doxepin (except TCA test)	O-Hydroxyhippuric acid
Isalicylic acid	Doxylamine(except KET,MTD, TRA tests)	Omeprazole
opyrine	Ecgonine methyl ester	Oxalic acid
ricillin	β-Estradiol (except BZO test)	Oxazepam (except BZO test)
cillin	Ephedrine HCI(except MET/mAMP test)	Oxolinic acid
norphine	Erythromycin (except BZO test)	Oxycodone acetaminophen (except MOP/OPI300,OPI,OXY tests)
rtame	Estrogen	Oxymetazoline
in	Fenoprofen	Papaverine
ine	Fentanyl citrate(except MDMA	Penicillin V Potassium
	test)	
dryl	Furosemide	Penicillin-G

Hydrochlorothiazide

3-Hydroxytyramine

Isoxsuprine

Ketoprofen

Lamotrigine

Meperidine

Meprobamate

Levonorgestrel

Labetalol

Hydrocodone (except BZO,

Ibuprofen (except OXY test)

Ketamine (except OXY test)

Lofexidine (except OXY test)

Loperamide (except MTD test)

Maprotiline (except TCA, OXY

Methadone (except MTD test)

MOP/OPI300, OPI, OXY tests)

## Center for Substance Abuse Treatmentwww.health.org 1-800-662-HELP The National Council on Alcoholism and Drug Dependence www.ncadd.org 1-800-NCA-CALL

Phencyclidine(except PCP, OXY

Phenytoin (except BAR test)

Procaine (except COC test)

Secobarbital (except MET/mAMP,

Tetrahydrocortisone3-(β-Dglucuronide) (except AMP, BAR, OXY tests)

Serotonin (5- Hydroxytyramine)

Sinus&Allergy(except BZO, MET/mAMP tests)

Pholcodine(except MOP/OPI300,OPI

Phenelzine

Prednisone

Propranolol HCI

Ranitidine HCI

Salicylic acid

BAR tests)

Sulfamethazine

BAR tests)

D.L-Isoproterenol(except AMP.

Spring – Verlag, 1977.

Monography 73, 1986

Press, 1983.

BIBLIOGRAPHY OF SUGGESTED READING

McBay, A. J. Clin. Chem. 33,33B-40B, 1987. ADDITIONAL INFORMATION AND RESOURCES

American Council for Drug Education (ACDE) www.acde.org 1-800-488-DRUG

MDMA,MET/mAMP, TCA tests)

Methoxyphenamine (except MET/mAMP,TCA tests) Morphine-3-b-d-glucuronide (except BZO, MOP/OPI300, OPI

Nitroglycerin

Norethindrone

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

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

National Clearinghouse for Alcohol and Drug Information www.health.org 1-800729-6686

Norcodein (except MOP/OPI300,

Baselt, R.C. Disposition of Toxic Drugs and Chemicals in Man. Biomedical Publications, Davis, CA, 1982.

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

Gilman, A. G., and Goodman, L. S. The Pharmacological Fluids, in Martin WR(ed): Drug Addiction I, New York,

Hawwks RL, CN Chiang. Urine Testing for drugs of Abuse. National Institute for Drug Abuse (NIDA), Research

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

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

OPI, BZO, OXY tests)

(except AMP, BAR, OXY tests)

Tyramine (except AMP, BAR tests)

Venlafaxine HCI(except TRA test)

Uric acid

## INDEX OF SYMBOLS

Keep away from sunlight

Store between 4°C - 30°C (40°F - 86°F)









