CLIA WAIVED Multi-Drug Urine Test Panel

Catalogue No. See Box label

The Multi-Drug Urine Test Panel is a competitive binding, lateral flow immunochromatographic assay for qualitative and simultaneous detection of Amphetamine, Secobarbital, Buprenorphine, Oxazepam, Cocaine, Methylenedioxymethamphetamine, Methamphetamine, Morphine, Methadone, Opiate, Oxycodone, Phencyclidine, Notriptyline and Cannabinoids in human urine at specified cutoff level.

Configurations of the Multi-Drug Urine Test Panel can consist of any combination of the above listed drug analytes.

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 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 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 label).

This package insert applies to both multi-drug panels with and without the adulteration. Therefore, some information on the performance characteristics of the product may not be relevant to your test. Please refer to the labels on the pouch and the prints on the test to identify which drugs are included in your test.

For in vitro diagnostic use only. It is intended for over-the-counter and for prescription use.

WHAT IS MULTI-DRUG URINE TEST PANEL?

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

The test is intended for over-the-counter (OTC) use as the first step in a two step process to provide consumers with information concerning the presence or absence of the above stated drug in a urine sample. Information regarding confirmatory testing – the second step in the process, along with the materials for shipping a portion of the urine specimen to the laboratory for confirmation testing of a preliminary positive result, the second step in the process, is not provided.

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

Drug(Identifier)	Calibrator	Cut-off level	Minimum detection time	Maximum detection time
Amphetamine (AMP)	d-Amphetamine	1000ng/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)	Benzoylecgonine	300 ng/mL	1-4 hours	2-4 days
Methylenedioxymethamp hetamine (MDMA)	3,4-Methylenedioxymetham phetamine HCI (MDMA)	500 ng/mL	2-7 hours	2-4 days
Methamphetamine (MET/mAMP)	D(+)-Methamphetamine	1000ng/mL	2-7 hours	2-4 days

Morphine (MOP)	Morphine	300 ng/mL	2 hours	2-3 days
Methadone (MTD)	Methadone	300 ng/mL	3-8 hours	1-3 days
Opiate (OPI)	Morphine	2000ng/mL	2 hours	2-3 days
Oxycodone (OXY)	Oxycodone	100 ng/mL	4 hours	1-3 days
Phencyclidine (PCP)	Phencyclidine	25 ng/mL	4-6 hours	7-14days
Notriptyline (TCA)	Notriptyline	1000ng/mL	8-12hours	2-7 days
Cannabinoids (THC)	11-nor-Δ9-THC-9-COOH	50 ng/mL	2 hours	Up to 5+ days

WARNINGS AND PRECAUTIONS

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

CONTENT OF THE KIT

- 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.
- 2. Leaflet with instructions for use.

MATERIAL REQUIRED BUT NOT PROVIDED

- Urine collection cup
- Timer or clock
- 3. Adulteration&Adulteration Color Chart (Provided with Kits including Adulterants)

STORAGE AND STABILITY

Store at 4°C-30°C (40°F-86°F) in the sealed pouch up to the expiration date. Keep away from direct sunlight, moisture and heat. DO NOT FREEZE.

SPECIMEN COLLECTION

WHEN TO COLLECT URINE FOR THE TEST?

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 IS THE CUT-OFF VALUE AND APPROXIMATE DETECTION TIME?" in this instruction for use for the minimum/ maximum detection time for each drug.

HOW TO COLLECT URINE?

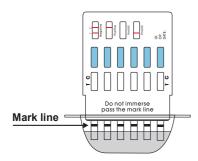
- Urinate directly into the urine collection cup. Urine samples may be refrigerated at 2°C-8°C (36°F-47°F) and stored up to forty-eight hours. For longer storage, freeze the samples at -20°C (-4°F) or below.
- Bring frozen or refrigerated samples to room temperature before testing. Previously frozen or refrigerated samples should be well-mixed before analysis. Cloudy specimens should be centrifuged before analysis.
- 3. Use only clear aliquots for testing.

TEST PROCEDURE

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

- 1. Open the sealed pouch by tearing along the notch. Remove the test device from the pouch.
- Hold the one side of the device with one hand. Use the other hand to pull out the cap and expose the absorbent end.

- Immerse the absorbent end into the urine sample for about 10 seconds. Make sure that the urine level is not above the marker line printed on the front of the device.
- Lay the device flat on a clean, dry, non-absorbent surface.
- 5. For the adulteration strip(s), compare each reagent area to its corresponding color blocks on the color 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. Note: All reagent areas may be read between 1 2 minutes. Changes in color after 2 minutes are of no diagnostic value.
- 6. For the drug of abuse tests, read the results for the drugs at 5 minutes. Do not read after 5 minutes.



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

READING THE RESULTS

Preliminary positive (+)

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.

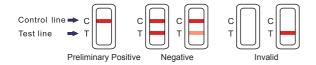
Negative (-)

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 test.

Invalid

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.

IMPORTANT: 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 Panel. The most common causes of a false positive test are cross reactants. Certain

foods and medicines, diet plan drugs and nutritional supplements may cause a false positive test result with this product.

What Is A False Negative Test?

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

TEST LIMITATIONS

- 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 sample.
- 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

1. 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.

2. What is "cut-off level"?

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 positive.

3. 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.

4. What are the Common Street Names for the Drugs to be detected?

Drug	Common Street Names		
Amphetamine (AMP)	Speed, Jelly Beans or Super Jellies , Hearts, Uppers, Pick me ups or Wake me ups, Wake ups, Get ups, Boot ups, Sparkles		
Secobarbital (BAR)	Amytal, Downers, Nembutal, Phenobarbital, Reds, Red Birds, Red devils, Seconal, Tuninal, Yellowjackets		
Buprenorphine (BUP)	Bupe, Subbies, Temmies		
Oxazepam (BZO)	Benzos, Downers, Nerve Pills, Tranks		
Cocaine (COC)	Blow, C, candy, coke, do a line, freeze, girl, happy dust, Mama coca, mojo, monster, nose, pimp, shot, smoking gun, snow, sugar, sweet stuff, and white powder.		
Methylenedioxymethamphetamine (MDMA)	Ecstasy, E, X, XTC, Adam, Clarity, Lover's Speed		
Methamphetamine (MET/mAMP)	Speed, Ice, Chalk, Meth, Crystal, Crank, Fire, Glass		
Morphine (MOP)	Aunt Hazel, big H, black pearl, brown sugar, capital H, charley, china white, dope, good horse, H, hard stuff, hero, heroina, little boy, mud, perfect high, smack, stuff and tar.		
Methadone (MTD)	mixture, meth, linctus, green		
Morphine (OPI)	Aunt Hazel, big H, black pearl, brown sugar, capital H, charley, china white, dope, good horse, H, hard stuff, hero, heroina, little		

	boy, mud, perfect high, smack, stuff and tar.
Oxycodone (OXY)	OC, Ocycotton, OX, and Kicker
Phencyclidine (PCP)	Angel dust, belladonna, black whack, CJ, cliffhanger, crystal joint, Detroit pink, elephant tranquilizer, hog, magic, Peter Pan, sheets, soma, TAC, trank, white horizon and zoom.
Notriptyline (TCA)	*****
Cannabinoids (THC)	420, Aunt Mary, baby, bobby, boom, chira, chronic, ditch, ganja, grass, greens, hash, herb, Mary Jane, nigra, Pot, reefer, rip, root, skunk, stack, torch, weed and zambi.

5. 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.

- 6. If the test results are negative, can the conclusion be that the person is free 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.
- 7. 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.

- 8. 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.

The test is also intended for prescription use. The below sections are for the reference of prescription users. The above sections of WARNINGS AND PRECAUTIONS, CONTENT OF THE KIT, STORAGE AND STABILITY, TEST PROCEDURE, READING THE RESULTS, and TEST LIMITATIONS also apply to the prescription users.

SUMMARY

Amphetamine (AMP)

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

Secobarbital (BAR)

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

Buprenorphine (BUP)

Buprenorphine is a potent analgesic often used in the treatment of opioid addiction. The drug is sold under the trade names Subutex™, Buprenex™, Temgesic™ and Suboxone™; all of which contain Buprenorphine HCl alone or in combination with Naloxone HCl. Therapeutically, Buprenorphine is used as a substitution treatment for opioid addicts. A substitution treatment is a form of medical care offered to opiate addicts (primarily heroin addicts) based on a similar or identical substance to the drug normally used. In substitution therapy.

Buprenorphine is as effective as Methadone but demonstrates a lower level of physical dependence. The 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 detection window for the parent drug in urine is thought to be approximately 3 days.

Oxazepam (BZO)

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

Cocaine (COC)

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.

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 release dopamine, although the general opinion is that this is a secondary effect of the drug (Nichols and Oberlender, 1990). The most pervasive effect of MDMA, occurring in virtually all people who took a reasonable dose of the drug, was to produce a clenching of the jaws.

Methamphetamine (MET/mAMP)

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

Morphine (MOP)

The opiates such as heroin, morphine, and codeine are derived from the resin of opium poppy. The principal metabolites of opiates are morphine, morphine-3-glucuronide normorphine and codeine with a half-life of about 3 hours. Heroin is quickly metabolized to morphine. Thus, morphine and morphine glucuronide might both be found in the urine of a person who has taken only heroin. The body also changes codeine to morphine. Thus, the presence of morphine (or the metabolite, morphine glucuronide) in the urine indicates heroin, morphine and/or codeine use.

The test for Morphine (MOP) of the Multi-Drug Urine Test Panel yields a positive result when the morphine in urine exceeds 300ng/mL.

Methadone (MTD)

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

Opiate (OPI)

Opiate refers to any drug that is derived from the opium poppy, including the natural products, morphine and codeine, and the semi-synthetic drugs such as heroin. Opioid is more general, referring to any drug that acts on the opioid receptor. Opioid analgesics comprise a large group of substances which control pain by depressing the central nervous system. Large doses of morphine can produce higher tolerance levels, physiological dependency in users, and may lead to substance abuse. Morphine is excreted unmetabolized, and is also the major metabolic product of codeine and heroin. Morphine is detectable in the urine for several days after an opiate dose.

The test for Morphine 2000 (OPI) of the Multi-Drug Urine Test Panel yields a positive result when the morphine in urine exceeds 2000 ng/mL.

Oxycodone (OXY)

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

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

Phencyclidine (PCP)

Phencyclidine is an arylcyclohexylamine that was originally used as an anesthetic agent and a veterinary tranquilizer. Phencyclidine can produce hallucinations, lethargy, disorientation, loss of coordination, trance-like ecstatic states, a sense of euphoria and visual distortions. It has many street names, such as "angel duzt" and "crystal cyclone," etc. phencyclidine can be administered orally, by nasal ingestion, smoking, or by intravenous injection. It is metabolized in the liver and excreted through the kidneys in urine in unchanged form and oxidized metabolites with a half life of about 12 hours. Suction and urinary acidification in the treatment of overdose typically reduces its half-life from three days to one day.

Notriptyline (TCA)

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 injection. TCAs are metabolized in the liver. Both TCAs and their metabolites are excreted in urine mostly in the form of metabolites for up to ten days.

Cannabinoids (THC)

Cannabinoids is a hallucinogenic agent derived from the flowering portion of the hemp plant. The active ingredients in Cannabinoids, THC & Cannabinol can be metabolized and excreted as 11-nor- Δ 9-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 short-term memory, anxiety, paranoia, depression, confusion, hallucinations and increased heart rate. A tolerance to the cardiac and psychotropic effects can occur, and withdrawal syndrome produces restlessness, insomnia, anorexia and nausea.

PRINCIPLE

The Multi-Drug Urine Test Panel 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 a limited number of drug monoclonal antibody (mouse) conjugate binding sites.

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

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

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

QUALITY CONTROL

Users should follow the appropriate federal, state, and local guidelines concerning the frequency of assaying external quality control materials.

Even though there is an internal procedural control line in the test device in the Control Region, the use of external controls is strongly recommended as good laboratory testing practice to confirm the test procedure and to verify proper test performance. Positive and negative controls should give the expected results. When testing the positive and negative controls, the same assay procedure should be adopted. External Control (positive and negative) should be run with each new lot of test received, each new shipment, each new operator and monthly to determine that tests are working properly. This will ensure that the end user has clear understanding of when to perform quality control testing.

PERFORMANCE CHARACTERISTICS

Accuracy

1120 (eighty of each drug) clinical urine specimens were analyzed by GC-MS and by each corresponding drug of abuse Test. Each test was read by three viewers. Samples were divided by concentration into five categories: drug-free, less than half the cutoff, near cutoff negative, near cutoff positive, and high positive. Results were as follows:

Drug	Result		Drug-	Less	Near	Near	High	%Agreement with
test			free	than	Cutoff	Cutoff	Positiv	GC/MS
				half	Negative	Positive	е	(95%CI)
				the	(Between	(Between	(greater	
				cutoff	50%	the	than	
				conce-	below	cutoff	50%	
				ntration	the cutoff	and 50%	above	
				by	and the	above	the	
				GC/MS	cutoff	the cutoff	cutoff	
				analysis	concentr-	concentr-	concen-	
					ation)	ation)	tration)	
AMP	Viewer	+	0	0	1	11	29	100% (84.5% - 100%)
	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%)
	С	-	10	10	18	0	0	95% (79.5% - 100%)
BZO	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%)
	С	-	10	10	18	0	0	95% (79.5% - 100%)
coc	Viewer	+	0	0	2	11	29	100% (84.5% - 100%)
	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%)
MET	Viewer	+	0	0	1	20	20	100% (84.5% - 100%)
(mAMP)	Α .	-	10	16	13	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	20	20	100% (184.5% - 100%)
	В	-	10	16	12	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% - 100%)
	С	_	10	16	12	0	0	95% (79.5% - 100%)

MDMA	Viewer	+	0	0	2	20	20	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%)
	C		10	10	18	0	0	95% (79.5% - 100%)
BUP	Viewer	+	0	0	1	16	24	100% (84.5% - 100%)
201	A	-	10	18	11	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	1	16	24	100% (84.5% - 100%)
	В	-	10	18	11	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	16	24	100% (84.5% - 100%)
	C		10	18	10	0	0	95% (79.5% - 100%)
MOP	Viewer	+	0	0	2	20	20	100% 84.5% - 100%)
moi	A	-	10	19	9	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	2	20	20	100% (84.5% - 100%)
	B		10	19	9	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	1	20	20	100% (84.5% - 100%)
	C	-	10	19	10	0	0	97.5% (82% - 100%)
MTD	Viewer	+	0	0	10	19	21	100% (84.5% - 100%)
	A	-	10	12	17	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	2	19	21	100% (84.5% - 100%)
	B	т	10	12	16	0	0	95% (79.5% - 100%)
	Viewer	+	0	0	1	19	21	100% (84.5% - 100%)
	C	-	10	12	17			97.5% (82% - 100%)
OPI	Viewer	+	0	0	1	0 18	0	1
OFI	A	-	10	20			22	100% (84.5% - 100%)
			0	0	9	0	0	97.5% (82% - 100%)
	Viewer B	+	10	20	9	18	22 0	100% (84.5% - 100%)
		+	0	0	-	0	_	97.5% (82% - 100%)
	Viewer C	-	10	20	1	18	22	100% (84.5% - 100%)
PCP	Viewer	+	0	0	9	0 18	0 22	97.5% (82% - 100%)
PCP	A	-	10		16	0	0	100% (84.5% - 100%)
		+	0	13 0	2		22	97.5% (82% - 100%)
	Viewer B	-	10	13	15	18 0	0	100% (84.5% - 100%)
			0	0	1	18	22	95% (79.5% - 100%)
	Viewer C	+	10					100% (84.5% - 100%)
TCA	-			13	16	0	0	97.5% (82% - 100%)
ICA	Viewer A	+	0 10	0 19	10	10 0	30 0	100% (84.5% - 100%)
		-			2	10	_	97.5% (82% - 100%)
	Viewer B	+	0	0			30	100% (84.5% - 100%)
		-	10	19	9	0 10	30	95% (79.5% - 100%)
	Viewer C	+	0	10		-		100% (84.5% - 100%)
THO		-	10 0	19 0	10 1	19	0	97.5% (82% - 100%)
THC	Viewer	+	10	12	17	18 0	22 0	100% (84.5% - 100%)
	Α	-	0	0	17	18	22	97.5% (82% - 100%)
	Viewer	+	10	12	17	0	0	100% (84.5% - 100%)
	В	-	0	0		_	_	97.5% (82% - 100%)
	Viewer	+		-	1	18	22	100% (84.5% - 100%)
OVC	С	-	10	12	17	0	0	97.5% (82% - 100%)
OXY	Viewer	+	0	0	1	19	21	100% (84.5% - 100%)
	Α	-	10	20	9	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	1	19	21	100% (84.5% - 100%)
	В	-	10	20	9	0	0	97.5% (82% - 100%)
	Viewer	+	0	0	1	19	21	100% (84.5% - 100%)
	С	_	10	20	9	0	0	97.5% (82% - 100%)

Precision and Sensitivity

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

each concentration for each lot per day (2 runs /day), for a total of 50 determinations per concentration per lot of the corresponding drug of abuse test.

MIP	Drug test	Approximate concentration of sample	Number of determinations	N	Results Negative/ Positive			
250 50 500 500 500 500 500 500 50 5		(ng/mL)	per lot	Lot 1	Lot 2	Lot 3		
SOO	AMP		50	50/0	50/0	50/0		
750		250	50	50/0	+	50/0		
1000 50 5/45 6/44 6/44 6/44 6/45 6/			+	50/0	-	50/0		
1250			+		-			
1500								
BAR			+					
BAR			+		+			
BAR								
75			+		+			
150	BAR							
225 50 50/0 50/0 50/0 50/0			1		i			
300 50 5/45 5/45 6/44 375 50 0/50 0/50 0/50 0/50 450 50 0/50 0/50 0/50 0/50 525 50 0/50 0/50 0/50 0/50 6000 50 0/50 0/50 0/50 0/50 75 50 50/0 50/0 50/0 150 50 50/0 50/0 50/0 225 50 50/0 50/0 50/0 300 50 50 6/44 5/45 6/44 375 50 0/50 0/50 0/50 450 50 50/0 50/0 50/0 525 50 50/0 50/0 50/0 6000 50 0/50 0/50 0/50 6000 50 0/50 0/50 0/50 6000 50 0/50 0/50 0/50 75 50 50/0 50/0 50/0 50 50 50/0 50/0 50/0 6000 50 50/0 50/0 50/0 75 50 50/0 50/0 50/0 225 50 50/0 50/0 50/0 225 50 50/0 50/0 50/0 6000 50 6/44 5/45 5/45 375 50 50/0 50/0 50/0 225 50 50/0 50/0 50/0 450 50 50 6/44 5/45 5/45 375 50 0/50 0/50 0/50 450 50 50 6/44 5/45 5/45 375 50 0/50 0/50 0/50 6000 50 6/44 5/45 5/45 450 50 0/50 0/50 0/50 6000 50 0/50 0/50 0/50 6000 50 0/50 0/50 0/50 6000 50 0/50 0/50 0/50 6000 50 0/50 0/50 0/50 6000 50 50/0 50/0 50/0 5000 50 50/0 50/0 50/0 750 50 50/0 50/0 50/0 750 50 50/0 50/0 50/0 1500 50 50 50/0 50/0 50/0 1500 50 50 50/0 50/0 50/0 1500 50 50 50/0 50/0 50/0 1500 50 50 50/0 50/0 50/0 1250 50 50 50/0 50/0 50/0 1250 50 50 50/0 50/0 50/0 1500 50 50 50/0 50/0 50/0 1250 50 50 50/0 50/0 50/0 1250 50 50 50/0 50/0 50/0 1250 50 50 50/0 50/0 50/0 1500 50 50 50/0 50/0 50/0 1250 50 50 50/0 50/0 50/0 1250 50 50 50/0 50/0 50/0 5000 50 50 50/0 50/0 50/0 5000 50 50 50/0 50/0 50/0 5000 50 50 50/0 50/0 50/0 5000 50 50 50/0 50/0 50/0 5000 50 50 50/			+					
ST5			+		-			
## 450								
S25			+		+			
BZO								
BZO			1		i			
	DZC							
150	BZU							
COC			+					
			+		+			
A50								
S25			+		+			
COC								
COC								
New York Solid S	200				+			
150								
MET			+		-			
MET								
MET								
MET								
MET					-			
MET					+			
MET (mAMP)			+		+			
(mAMP)	MET							
S00 S0 S0/0 S0/0 S0/0 S0/0 750 S0 S0 S0/0 S0/0 S0/0 1000 S0 S/45 6/44 4/46 1250 S0 0/50 0/50 0/50 1500 S0 0/50 0/50 0/50 1750 S0 0/50 0/50 0/50 2000 S0 S0/0 S0/0 S0/0 2000 S0 S0/0 S0/0 S0/0 2000 S0 S0/0 S0/0 S0/0 250 S0 S0/0 S0/0 S0/0 250 S0 S0/0 S0/0 S0/0 375 S0 S0/0 S0/0 S0/0 500 S0 7/43 6/44 S/45 625 S0 0/50 0/50 0/50 750 S0 S0/50 0/50 0/50 875 S0 S0/50 0/50 0/50 875 S0 S0/50 0/50 0/50 875 S0 S0/0 S0/0 S0/0 2.5 S0 S0/0 S0/0 S0/0 5.0 S0 S0/0 S0/0 S0/0 7.5 S0 S0/0 S0/0 S0/0	(mAMP)	250	50					
1000 50 5/45 6/44 4/46 1250 50 0/50 0/50 0/50 1500 50 0/50 0/50 0/50 1750 50 0/50 0/50 0/50 2000 50 0/50 0/50 0/50 2000 50 0/50 0/50 0/50 125 50 50/0 50/0 50/0 250 50 50/0 50/0 50/0 250 50 50/0 50/0 50/0 375 50 50/0 50/0 50/0 500 50 7/43 6/44 5/45 625 50 0/50 0/50 0/50 750 50 0/50 0/50 875 50 0/50 0/50 0/50 1000 50 0/50 0/50 0/50 1000 50 0/50 0/50 0/50 2.5 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0 50/0 7.5 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/			50			50/0		
1250 50 0/50 0/50 0/50 0/50 1500 1500 50 0/50 0/50 0/50 0/50 0/50 1750 50 0/50		750	50	50/0	50/0	50/0		
1500 50 0/50 0/50 0/50 0/50 1750 50 0/50		1000	50	5/45	6/44	4/46		
MDMA		1250	50	0/50	0/50	0/50		
MDMA		1500	50	0/50	0/50	0/50		
MDMA		1750	50	0/50	0/50	0/50		
125 50 50/0 50/0 50/0 50/0 250 50 50 50/0 50/0 50/0 375 50 50/0 50/0 50/0 500 50 7/43 6/44 5/45 625 50 0/50 0/50 0/50 750 50 0/50 0/50 0/50 875 50 0/50 0/50 0/50 1000 50 0/50 0/50 0/50 BUP 0 50 50/0 50/0 50/0 2.5 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0		2000	50	0/50	0/50	0/50		
250 50 50/0 50/0 50/0 50/0 375 50 50 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/0 50/5 50 50	MDMA	0	50	50/0	50/0	50/0		
375 50 50/0 50/0 50/0 500 50 7/43 6/44 5/45 625 50 0/50 0/50 0/50 750 50 0/50 0/50 0/50 875 50 0/50 0/50 0/50 1000 50 0/50 0/50 0/50 1000 50 50/0 50/0 2.5 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0		125	50	50/0	50/0	50/0		
500 50 7/43 6/44 5/45 625 50 0/50 0/50 0/50 750 50 0/50 0/50 0/50 875 50 0/50 0/50 0/50 1000 50 0/50 0/50 0/50 80P 0 50 50/0 50/0 50/0 2.5 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0		250	50	50/0	50/0	50/0		
625 50 0/50 0/50 0/50 750 50 0/50 0/50 0/50 0/50 875 50 0/50 0/50 0/50 0/50 1000 50 0/50 0/50 0/50 0/50 8UP 0 50 50/0 50/0 50/0 50/0 2.5 50 50/0 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0 50/0		375	50	50/0	50/0	50/0		
T50 50 0/50 0/50 0/50 875 50 0/50 0/50 0/50 1000 50 0/50 0/50 0/50 BUP 0 50 50/0 50/0 50/0 2.5 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0		500	50	7/43	6/44			
BUP 0 50 0/50 0/50 0/50 2.5 50 50/0 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0 50/0			+		+			
BUP 0 50 0/50 0/50 0/50 2.5 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0								
BUP 0 50 50/0 50/0 50/0 2.5 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0								
2.5 50 50/0 50/0 50/0 5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0		1000	50	0/50	0/50	0/50		
5.0 50 50/0 50/0 50/0 7.5 50 50/0 50/0 50/0	BUP	0	50	50/0	50/0			
7.5 50 50/0 50/0 50/0		2.5	50	50/0	50/0	50/0		
		5.0	50	50/0	50/0	50/0		
10.0 50 5/45 5/45 6/44		7.5	50	50/0	50/0	50/0		
		10.0	50	5/45	5/45	6/44		

	12.5	50	0/50	0/50	0/50
	15.0	50	0/50	0/50	0/50
	17.5	50	0/50	0/50	0/50
	20.0	50	0/50	0/50	0/50
МОР	0	50	50/0	50/0	50/0
1	75	50	50/0	50/0	50/0
1	150	50	50/0	50/0	50/0
	225	50	50/0	50/0	50/0
	300	50	7/43	5/45	6/44
	375 450	50 50	0/50 0/50	0/50 0/50	0/50 0/50
-	525	50	0/50	0/50	0/50
	600	50	0/50	0/50	0/50
MTD	0	50	50/0	50/0	50/0
	75	50	50/0	50/0	50/0
	150	50	50/0	50/0	50/0
	225	50	50/0	50/0	50/0
	300	50	5/45	7/43	5/45
	375	50	0/50	0/50	0/50
	450	50	0/50	0/50	0/50
	525	50	0/50	0/50	0/50
	600	50	0/50	0/50	0/50
OPI	0	50	50/0	50/0	50/0
	500	50	50/0	50/0	50/0
	1000	50	50/0	50/0	50/0
	1500	50	50/0	50/0	50/0
	2000	50	5/45	5/45	6/44
	2500	50	0/50	0/50	0/50
	3000	50	0/50	0/50	0/50
	3500	50	0/50	0/50	0/50
202	4000	50	0/50	0/50	0/50
PCP	0	50	50/0	50/0	50/0
	6.25 12.5	50	50/0 50/0	50/0	50/0 50/0
-	18.75	50 50	50/0	50/0 50/0	50/0
	25	50	6/44	4/46	5/45
	31.25	50	0/50	0/50	0/50
	37.5	50	0/50	0/50	0/50
	43.75	50	0/50	0/50	0/50
	50	50	0/50	0/50	0/50
TCA	0	50	50/0	50/0	50/0
	250	50	50/0	50/0	50/0
	500	50	50/0	50/0	50/0
	750	50	50/0	50/0	50/0
	1000	50	6/44	5/45	4/46
	1250	50	0/50	0/50	0/50
	1500	50	0/50	0/50	0/50
	1750	50	0/50	0/50	0/50
				 	
TUO	2000	50	0/50	0/50	0/50
THC	0	50	50/0	50/0	50/0
	12.5	50	50/0	50/0	50/0
	25.0	50	50/0	50/0	50/0
	37.5	50	50/0	50/0	50/0
	50.0	50	4/46	4/46	5/45
	62.5	50	0/50	0/50	0/50
1 L	75.0	50	0/50	0/50	0/50
	87.5	50	0/50	0/50	0/50
Ι Γ	100.0	50	0/50	0/50	0/50
OXY	0	50	50/0	50/0	50/0
	25	50	50/0	50/0	50/0
	50	50	50/0	50/0	50/0
	75	50	50/0	50/0	50/0
		1 30	30/0	30/0	30/0

100	50	4/46	4/46	5/45
125	50	0/50	0/50	0/50
150	50	0/50	0/50	0/50
175	50	0/50	0/50	0/50
2000	50	0/50	0/50	0/50

Specificity and Cross Reactivity

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

Amphetamine (AMP)	Concentration	D-Amphetamine	50,000
	(ng/ml)		
d-Amphetamin	1,000	Chloroquine	50,000
d.I-Amphetamine	3,000	(+/-)-Ephedrine	50,000
1-Amphetamine	50,000	(-)-Methamphetamine	25,000
(+/-) 3,4-methylenedioxyamphetamine (MDA)	5,000	(+/-)3,4-methylenedioxumethamphetamine (MDMA)	2,000
Phentermine	3,000	β-Phenylethylamine	50,000
d-methamphetamine	>100,000	Trimethobenzamide	10,000
I-methamphetamine	>100,000	Methylenedioxymethamphetamine (MDMA)	
3,4-Methylenedioxyethylamphetamine(MDE)	100,000	3,4-Methylenedioxymethamphetamine HCI (MDMA)	500
(+/-)3,4-methylenedioxumethamphetamine	100,000	3,4-Methylenedioxyamphetamine HCl (MDA)	3,000
(MDMA)			
Secobarbital (BAR)		3,4-Methylenedioxyethylamphetamine (MDE)	300
Secobarbital	300	Morphine (MOP)	
Amobarbital	300	Morphine	300
Alphenol	150	Codeine	300
Aprobarbital	200	Ethyl Morphine	300
Butabarbital	75	Heroin	300
Butathal	100	Hydrocodone	5,000
Butalbital	5,000	Hydromorphone	5.000
Cyclopentobarbital	600	Morphinie-3-β-d-glucuronide	1.000
Pentobarbital	5,000	σ -Monoacetylmorphine	400
Phenobarbital	10,000	Oxycodone	25,000
Oxazepam(BZO)	,	Oxymorphone	10,000
Oxazepam	300	Thebaine	30.000
Alprazolam	200	Opiate (OPI)	00,000
a-Hydroxyalprazolam	1.500	Morphine	2.000
Benzodiazepine	100	Codeine	2.000
Bromazepam	1.500	Ethylmorphine	5.000
Chlordiazepam	10.000	Heroin	2.000
Chlordiazepoxide	1.500	Hydrocodone	12.500
Clonazepam HCI	800	Hydromorphine	5.000
Clobazam	100	Levorphanol	75.000
Clonazepam	5,000	σ-Monoacetylmorphine	5,000
Clorazepate dipotassium	200	Morphine 3-b-D-glucuronide	2,000
Delorazepam	1,500	s-Monoacetylmorphine	5.000
Desalkylflurazepam	400	Norcodeine	12,500
Diazepam	200	Normorphone	50,000
Estazolam	2,500	Oxycodone	25,000
Flunitrazepam	400	Oxymorphine	25,000
D,L-Lorazepam	1,500	Procaine	150,000
Midazolam	12,500	Thebaine	100,000
Nitrazepam	100	Oxycodone (OXY)	
Norchlordiazepoxide	200	Oxycodone	100
Nordiazepam	400	Dihydrocodeine	20,000
Temazepam	100	Codeine	100,000
Triazolam	1,000	Hydromorphone	100,000
Cocaine (COC)		Morphine	>100,000
Benzoylecgonine	300	Acetylmorphine	>100,000
Cocaine HCI	750	Buprenorphine	>100,000
Cocaethylene	12,500	Ethylmorphine	>100,000
Ecgonine	32,000	Buprenorphine(BUP)	
Cannabinoids (THC)		Buprenorphine	10

11-nor-Δ9-THC-9-COOH	50	Buprenorphine -3-D-Glucuronide	15
11-nor-Δ8-THC-9-COOH	30	Norbuprenorphine	20
11-hydroxy-Δ9-Tetrahydrocannabinol	2,500	Norbuprenorphine 3-D-Glucuronide	200
Δ8- Tetrahydrocannabinol	7,500	Notriptyline (TCA)	
Δ9- Tetrahydrocannabinol	10,000	Notriptyline	1,000
Cannabinol	100,000	Nordoxepine	1,000
Cannabidiol	100,000	Trimipramiine	3,000
Methadone (MTD)		Amitriptyline	1,500
Methadone	300	Promazine	1,500
Doxylamine	50,000	Desipramine	200
Phencyclidine (PCP)		Imipramine	400
Phencyclidine	25	Clomipramine	12,500
4-Hydroxyphencyclidine	12500	Doxepine	2,000
Methamphetamine (MET/mAMP)	Concentration (ng/ml)	Maprotiline	2,000
D(+)-Methamphetamine	1,000	Promethazine	25,000

Effect of Urinary Specific Gravity

12 urine samples with density ranges (1.005-1.025) are collected and spiked with each drug at 25% below and 25% above cutoff level. Each sample was tested by three batches of the corresponding drug of abuse test. Three laboratory assistants read the result per batch of the corresponding drug of abuse test. The results demonstrate that varying ranges of urinary specific gravity do not affect the test result.

Effect of Urinary PH

The pH of an aliquot negative urine pool is adjusted to a pH range of 4 to 9 in 1 pH unit increments and spiked with each drug at 25% below and 25% above cutoff levels. Each sample was tested by three batches of the corresponding drug of abuse test. Three laboratory assistants read the result per batch of the corresponding drug of abuse test. The result demonstrates that varying range of PH do not interfere with the performance of the test.

Interfering Substances

Cannabidiol (except THC, OXY

tests)

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

Acetominophen	Dopamine HCI (except AMP test)	Noscapine
Acetophenetidin	Doxepin (except TCA test)	O-Hydroxyhippuric acid
Acetylsalicylic acid	Doxylamine (except KET, MTD, TRA tests)	Omeprazole
Aminopyrine	Ecgonine methyl ester	Oxalic acid
Amoxicillin	β -Estradiol (except BZO test)	Oxazepam (except BZO test)
Ampicillin	Ephedrine HCI (except	Oxolinic acid
	MET/mAMP test)	
Apomorphine	Erythromycin (except BZO test)	Oxycodone acetaminophen (except MOP, OPI, OXY tests)
Aspartame	Estrogen	Oxymetazoline
Aspirin	Fenoprofen	Papaverine
Atropine	Fentanyl citrate (except MDMA test)	Penicillin V Potassium
Benadryl	Furosemide	Penicillin-G
Benzilic acid	Gentisic acid	Pentobarbital (except BAR, OXY tests)
Benzoic acid	Hydralazine (except BZO test)	Perphenazine
Benzoylecgonine (except COC	Hydrochlorothiazide	Pethidine HCI
test)	,	
Bilirubin	Hydrocodone (except BZO,	Phencyclidine (except PCP,
	MOP, OPI, OXY tests)	OXY tests)
	•	Phenylephrine (except

3-Hydroxytyramine

MET/mAMP test)

Phenelzine

Captopril Hydrocortisone Phenytoin (except BAR test) Chloralhydrate I Caps Pholcodine(except MOP, OPI tests) Chloramphenicol Ibuprofen (except OXY test) Prednisone Chlorothiazide Isoxsuprine Procaine (except COC test) Chlorpromazine Ketamine (except OXY test) Propranolol HCI Chlorquine Ketoprofen Quinine Cholesterol Labetalol Ranitidine Clarithromycin Lamotrigine Ranitidine HCI Clonidine Levonorgestrel Salicylic acid Codeine (except MOP, OPI tests) Lofexidine (except OXY test) Secobarbital (except MET/mAMP, BAR tests) (-) Cotinine Loperamide (except MTD test) Serotonin (5- Hydroxytyramine) Cortisone Maprotiline (except TCA, OXY Sinus&Allergy(except BZO, MET/mAMP tests) tests) Creatinine Meperidine Sulfamethazine Deoxycorticosterone Meprobamate Sulindac Dextromethorphan Methadone (except MTD test) Tetrahydrocortisone3-(β -Dglucuronide) (except AMP, BAR, OXY tests) Diazepam(except BZO test) Methamphetamine (except Tetrahydrocortisone, 3-acetate MDMA, MET/mAMP, TCA (except AMP, BAR, OXY tests) tests) Diclofenac Methoxyphenamine (except Tetrahydrozoline MDMA, MET/mAMP, TCA tests) Diflunisal Morphinie-3-b-d-glucuronide Thiamine (except BZO, MOP, OPI tests) Digoxin N-Acetylprocainamide (except Thioridazine OXY test) Diphenhydramine Nalidixic acid Triamterene D L-Tryptophan (except AMP, Naloxone Trifluoperazine BAR tests) D.L-Isoproterenol (except AMP. Naltrexone Trimethoprim **BAR tests)** D,L-Octopamine Naproxen Tyramine (except AMP, BAR

DL-Propranolol Niacinamide

DL-Tyrosine Nifedipine D-Norpropoxyphene Nitroglycerin D-Propoxyphene (except OXY Norcodein (except MOP, OPI,

BZO, OXY tests)

D-Pseudoephedrine Norethindrone

Zomepirac

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tests)

Uric acid Venlafaxine HCI

Verapamil

Zoloft

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ADDITIONAL INFORMATION AND RESOURCES

The following list of organizations may be helpful to you for counseling support and resources. These groups also have an Internet address which can be accessed for additional information.

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

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

The National Council on Alcoholism and Drug Dependence www.ncadd.org 1-800-NCA-CALL

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

INDEX OF SYMBOLS



Keep away from sunlight



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





Do not re-use

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