

Multi-Drug Rapid Test Panel With/Without Adulteration (Urine)

Package Insert

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

ACE/AMP/BAR/BZO/BUP/COC/THC/MTD/MET/MDMA/MOP/MQL/OP/PCP/PPX/TCAT/ML/KE
T/OXY/COT/EDDP/FYL/K2/6-MAM/MDA/ETG/CLO/LSD/MPD/ZOL/DIA/ZOP/MCAT/7-ACL/CF
YL/CAF/CAT/TRO/MDPV/MEP/ALP/ABP/a-PVP/CNB/MPRD/PGB/TZD/UR-144/ZAL/MES/
GAB/ALC

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

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

A rapid test for the simultaneous, qualitative detection of multiple drugs and drug metabolites in human urine. For healthcare professionals including professionals at point of care sites. For forensic use only.

INTENDED USE AND SUMMARY

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

Test	Calibrator	Cut-off (ng/mL)
Acetaminophen (ACE)	Acetaminophen	5,000
Amphetamine (AMP)	d-Amphetamine	1,000/500/300
Barbiturates (BAR)	Secobarbital	300/200
Benzodiazepines (BZO)	Oxazepam	500/300/200/100
Buprenorphine (BUP)	Buprenorphine	10/5
Cocaine (COC)	Benzoylcocaine	300/200/150/100
Marijuana (THC)	11-nor- Δ^9 -THC-9 COOH	300/150/50/25/20
Methadone (MTD)	Methadone	300/200
Methamphetamine (MET)	d-Methamphetamine	1,000/500/300
Methylenedioxy-methamphetamine (MDMA)	d-Methylenedioxy-methamphetamine	1,000/500/300
Morphine (MOP/OP)	Morphine	300/200/100
Methaqualone (MQL)	Methaqualone	300
Opiate (OP)	Morphine	2,000
Phencyclidine (PCP)	Phencyclidine	25
Propoxyphene (PPX)	Propoxyphene	300
Tricyclic Antidepressants (TCA)	Nortriptyline	1,000/500
Tramadol (TML)	Cis-Tramadol	300/200/100
Ketamine (KET)	Ketamine	1,000/500/300/100
Oxycodone (OXY)	Oxycodone	300/100
Cotinine (COT)	Cotinine	500/200/100/50/10
2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine	300/100
Fentanyl (FYL)	Norfentanyl	20/10
Synthetic Marijuana (K2)	JWH-018 JWH-073	50/30
6-mono-aceto-morphine (6-MAM)	6-mono-aceto-morphine	10
(±) 3,4-Methylenedioxy-Amphetamine (MDA)	(±) 3,4-Methylenedioxy-Amphetamine	500
Ethyl-β-D-Glucuronide (ETG)	Ethyl-β-D-Glucuronide	1,000/500/300
Clonazepam (CLO)	Clonazepam	400/150
Lysergic Acid Diethylamide (LSD)	Lysergic Acid Diethylamide	50/20/10
Methylphenidate (MPD)	Methylphenidate	300
Methylphenidate (MPD)	Ritalin acid	1,000
Zolpidem (ZOL)	Zolpidem	50
Diazepam (DIA)	Diazepam	300/200
Zopiclone (ZOP)	Zopiclone	50
Methcathinone (MCAT)	S-(+)-Methcathinone	500
7-Aminoclonazepam (7-ACL)	7-Aminoclonazepam	300/200/100
Carfentanyl (CFYL)	Carfentanyl	500
Caffeine (CAF)	Caffeine	1,000
Cathine (CAT)	(+)-Norpseudoephedrine	150
Tropicamide (TRO)	Tropicamide	350
3, 4-methylenedioxypyrovalerone (MDPV)	3, 4-methylenedioxypyrovalerone	1,000/500
Mephedrone (MEP)	Mephedrone	100
Alprazolam (ALP)	Alprazolam	100
AB-PINACA (ABP)	AB-PINACA	10
α-Pyrrolidinovalephorone (α-PVP)	α-Pyrrolidinovalephorone	1,000/500
Cannabinol (CNB)	Cannabinol	500
Meperidine (MPRD)	Meperidine	100
Pregabalin (PGB)	Pregabalin	50,000
Trazodone (TZD)	Trazodone	200
UR-144	UR-144 5-Pentanoic acid	25
Zaleplon (ZAL)	Zaleplon	100

Mescaline (MES)	Mescaline	100
Gabapentin (GAB)	Gabapentin	2,000
Test	Calibrator	Cut-off
Alcohol (ALC)	Alcohol	0.02%

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

SUMMARY OF ADULTERATION

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

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

PRINCIPLE (FOR DOA TESTS EXCLUDING ALCOHOL)

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

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

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

PRINCIPLE OF ADULTERATION

Oxidants/PCC (Pyridiniumchlorochromate) tests for the presence of oxidizing agents such as bleach and hydrogen peroxide. Pyridiniumchlorochromate (sold under the brand name Urine Luck) is a commonly used adulterant. Normal human urine should not contain oxidants of PCC. **Specific gravity** tests for sample dilution. The normal range is from 1.003 to 1.030. Values outside this range may be the result of specimen dilution or adulteration.

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

Nitrite tests for commonly used commercial adulterants such as Klear and Whizzies. They work by oxidizing the major cannabinoid metabolite THC-COOH.² Normal urine should contain no trace of nitrite. Positive results generally indicate the presence of an adulterant.

Glutaraldehyde tests for the presence of an aldehyde. Adulterants such as Urin Aid and Clear Choice contain glutaraldehyde which may cause false negative results by disrupting the enzyme used in some immunoassay tests.³ Glutaraldehyde is not normally found in urine; therefore, detection of glutaraldehyde in a urine specimen is generally an indicator of adulteration.

Creatinine is a waste product of creatine; an amino-acid contained in muscle tissue and found in urine.⁴ A person may attempt to foil a test by drinking excessive amounts of water or diuretics such as herbal teas to "flush" the system. Creatinine and specific gravity are two ways to check for dilution and flushing, which are the most common mechanisms used in an attempt to circumvent drug testing. Low Creatinine and specific gravity levels may indicate dilute urine. The absence of Creatinine (<5 mg/dl) is indicative of a specimen not consistent with human urine.

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

PRINCIPLE (FOR ALCOHOL)

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

REAGENTS (FOR DOA TESTS EXCLUDING ALCOHOL)

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

REAGENTS (FOR ALCOHOL)

Tetramethylbenzidine

Alcohol Oxidase

Peroxidase

S.V.T. REAGENTS

Adulteration Pad	Reactive indicator	Buffers and non-reactive ingredients
Creatinine	0.04%	99.96%
Nitrite	0.07%	99.93%
Bleach	0.39%	99.71%
Glutaraldehyde	0.02%	99.98%
pH	0.06%	99.94%
Specific Gravity	0.25%	99.75%
Oxidants / PCC	0.36%	99.64%

PRECAUTIONS

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

STORAGE AND STABILITY

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

SPECIMEN COLLECTION AND PREPARATION

Urine Assay

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

Specimen Storage

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

MATERIALS

- Test Panels
- Adulteration Color Chart (when applicable)
- Materials Provided
 - Package insert

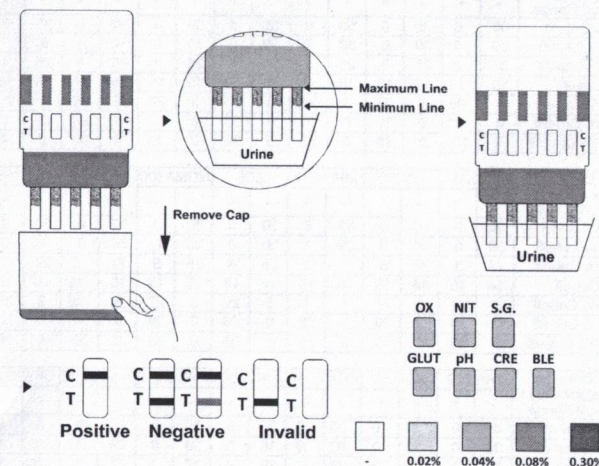
Materials Required But Not Provided

- timer

DIRECTIONS FOR USE

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

- Bring the pouch to room temperature before opening it. Remove the test panel from the sealed pouch and use it within one hour.
- Remove the cap.
- With the arrow pointing toward the urine specimen, immerse the test panel vertically in the urine specimen for at least 10 to 15 seconds. Immerse the dipstick to at least the level of the wavy lines, but not above the arrow on the test panel.
- Replace the cap and place the test panel on a non-absorbent flat surface.
- Start the timer and wait for the colored line(s) to appear.
- Read the adulteration strips and Alcohol strip between 3-5 minutes according to color chart provided separately/on foil pouch. Refer to your Drug Free Policy for guidelines on adulterated specimens. We recommend not to interpret the drug test results and either retest the urine or collect another specimen in case of any positive result for any adulteration test.
- The drug strip result should be read at 5 minutes. Do not interpret the result after 10 minutes.



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

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

***NOTE:** The shade of the colored line(s) in the Test region (T) may vary. The result should be considered negative whenever there is even a faint line.

POSITIVE: A colored line appears in the Control region (C) and NO line appears in the Test region (T). The positive result means that the drug concentration in the urine sample is greater than the designated cut-off for a specific drug.

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

INTERPRETATION OF RESULTS (S.V.T./ADULTERATION)

(Please refer to the color chart)

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

INTERPRETATION OF RESULTS (ALCOHOL STRIP)

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

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

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

QUALITY CONTROL

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

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

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

【S.V.T/ADULTERATION LIMITATIONS】

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

【PERFORMANCE CHARACTERISTICS】

Accuracy % Agreement with GC/MS											
	ACE 5000	AMP 1000	AMP 500	AMP 300	BAR 300	BAR 200	BZO 500	BZO 300	BZO 200	BZO 100	BUP 10
Positive Agreement	93.5%	98.1%	99.1%	99.1%	96.1%	95.3%	98.2%	98.4%	99.2%	99.2%	99.1%
Negative Agreement	98.6%	97.9%	98.6%	98.5%	98.6%	97.9%	97.8%	99.2%	98.4%	97.5%	> 99.9%
Total Results	97.0%	98.0%	98.8%	98.8%	97.6%	96.8%	98.0%	98.8%	98.8%	98.4%	99.6%

	BUP 5	COC 300	COC 200	COC 150	COC 100	THC 300	THC 150	THC 50	THC 25	THC 20	MTD 300
Positive Agreement	99.1%	98.2%	> 99.9%	98.3%	99.2%	95.5%	94.5%	97.9%	96.9%	94.8%	98.9%
Negative Agreement	> 99.9%	97.8%	> 99.9%	97.0%	97.0%	98.1%	97.5%	98.1%	97.4%	99.3%	98.8%
Total Results	99.6%	98.0%	100.0%	97.6%	98.0%	97.2%	96.4%	98.0%	97.2%	97.6%	98.8%

	MTD 200	MET 1000	MET 500	MET 300	MDMA 1000	MDMA 500	MDMA 300	MOP/O PI 300	MOP/O PI 100	MQL 300	OPI 2000
Positive Agreement	98.7%	96.2%	97.6%	97.8%	98.0%	98.1%	98.1%	95.0%	97.0%	89.8%	96.7%
Negative Agreement	98.7%	97.1%	97.0%	97.5%	99.3%	99.3%	99.3%	95.3%	96.6%	93.2%	93.8%
Total Results	98.8%	96.8%	97.2%	97.6%	98.8%	98.8%	98.8%	95.2%	96.8%	92.0%	95.2%

	PCP 25	PPX 300	TCA 1000	TCA 500	TML 100	TML 200	TML 300	KET 1000	KET 500	KET 300	KET 100
Positive Agreement	92.4%	96.0%	94.8%	94.9%	88.2%	88.2%	88.0%	97.5%	97.6%	96.7%	96.0%
Negative Agreement	96.8%	94.0%	91.6%	92.1%	92.4%	96.2%	96.2%	98.2%	98.2%	97.5%	97.3%
Total Results	95.2%	94.8%	92.8%	93.2%	90.8%	93.2%	93.2%	98.0%	98.0%	97.2%	96.8%

	OXY 100	OXY 300	COT 500	COT 200	COT 100	COT 50	COT 10	EDDP 300	EDDP 100	FYL 20	FYL 10
Positive Agreement	97.7%	96.5%	95.7%	96.7%	97.9%	96.7%	97.8%	97.9%	96.9%	98.8%	98.8%
Negative Agreement	99.4%	99.4%	96.1%	97.5%	98.1%	97.5%	98.1%	99.4%	96.7%	99.4%	99.4%
Total Results	98.8%	98.4%	96.0%	97.2%	98.0%	97.2%	98.0%	98.8%	96.8%	99.2%	99.2%

	K2- 50	K2- 30	6-MAM 10	MDA 500	ETG 500	ETG 1,000	CLO 400	CLO 150	LSD 10	LSD 20	LSD 50
Positive Agreement	97.5%	97.6%	97.7%	98.1%	97.6%	95.3%	97.1%	99.0%	94.3%	94.3%	94.1%

Negative Agreement	98.2%	98.8%	98.1%	97.9%	99.4%	99.4%	99.3%	98.6%	98.5%	98.5%	98.5%
Total Results	98.0%	98.4%	98.0%	98.0%	98.8%	98.0%	98.4%	98.8%	96.0%	97.0%	97.0%

	MPD 300	MPD 1,000	ZOL 50	DIA 300	DIA 200	ZOP 50	MCAT 500	7-ACL 300	7-ACL 200	7-ACL 100	CFYL 500
Positive Agreement	94.6%	94.6%	90.9%	98.4%	98.4%	86.4%	90.9%	94.1%	94.6%	94.7%	94.7%
Negative Agreement	98.4%	98.4%	97.1%	99.2%	99.2%	97.2%	95.0%	97.7%	97.6%	97.5%	98.6%
Total Results	97.0%	97.0%	95.6%	98.8%	98.8%	94.6%	94.1%	96.2%	96.2%	96.2%	97.3%

	CAF 1000	CAT 150	TRO 350	MDPV 1,000	MDPV 500	MEP 100	ALP 100	ABP 10	α-PVP 1000	CNB 500	MPRD 100
Positive Agreement	91.3%	90.5%	92.0%	93.3%	93.1%	90.5%	90.9%	92.0%	92.1%	95.8%	95.0%
Negative Agreement	95.7%	97.3%	97.0%	98.6%	98.3%	97.0%	97.4%	97.1%	96.8%	97.6%	94.2%
Total Results	94.6%	95.8%	95.6%	97.0%	96.6%	95.4%	95.9%	95.8%	95.0%	96.9%	94.4%

	PGB 50000	TZD 200	UR-14 4	ZAL 100	MES 100	GAB 2000	MOP/O PI 200	ETG 300	α-PVP 500
Positive Agreement	90.9%	92.9%	97.1%	95.2%	95.8%	92.3%	95.0%	98.8%	91.9%
Negative Agreement	97.3%	96.1%	98.4%	97.4%	97.6%	98.5%	96.0%	99.4%	95.2%
Total Results	95.9%	95.2%	98.0%	96.7%	96.9%	96.7%	95.6%	99.2%	94.0%

% Agreement with Commercial Kit											
	ACE 5,000	AMP 1,000	AMP 500	AMP 300	BAR 300	BAR 200	BZO 500	BZO 300	BZO 200	BZO 100	BUP 10
Positive Agreement	*	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %
Negative Agreement	*	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %
Total Results	*	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %

	BUP 5	COC 300	COC 200	COC 150	COC 100	THC 150	THC 50	THC 25	MTD 300	MTD 200	MET 1,000
Positive Agreement	*	>99.9 %	*	*	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %
Negative Agreement	*	>99.9 %	*	*	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %
Total Results	*	>99.9 %	*	*	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %

	MET 500	MET 300	MDMA 1,000	MDMA 500	MOP/ OPI 300	MOP/ OPI 100	MQL	OPI 2000	PCP	PPX	TCA 1000
Positive Agreement	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	*	>99.9 %	>99.9 %	*
Negative Agreement	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	*	>99.9 %	>99.9 %	*
Total Results	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	>99.9 %	*	>99.9 %	>99.9 %	*

	TML 100	TML 200	TML 300	KET 1,000	KET 500	KET 300	KET 100	OXY 100	COT 200	COT 100	EDDP 300
Positive Agreement	*	*	*	>99.9%	>99.9%	>99.9%	>99.9%	*	*	*	*
Negative Agreement	*	*	*	>99.9%	>99.9%	>99.9%	>99.9%	*	*	*	*
Total Results	*	*	*	>99.9%	>99.9%	>99.9%	>99.9%	*	*	*	*

	EDDP 100	FYL 20	FYL 10	K2 50	K2 30	6-MAM 10	MDA 500	ETG 500	ETG 1,000	CLO 400	CLO 150
Positive Agreement	*	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*	*

	LSD20	LSD50	MPD 300	ZOL	MDMA 300	OXY 300	DIA 300	DIA 200	ZOP 50	MCAT 500	7-ACL 300
Positive Agreement	*	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*	*

	7-ACL 200	7-ACL 100	CFYL 500	CAF 1000	CAT 150	TRO 350	MDPV 1000	MEP 100	ALP 100	THC 300
Positive Agreement	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*

	THC20	TCA 500	COT 500	COT 50	COT 10	LSD 10	MPD 1,000	MDPV 500	ABP 10	α-PVP 1,000	CNB 500
Positive Agreement	*	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*	*

	MPRD 100	PGB50 000	TZD 200	UR-14 4 25	ZAL 100	MES 100	GAB 2,000	MOP/ OPI 200	ETG 300	α-PVP 500
Positive Agreement	*	*	*	*	*	*	*	*	*	*
Negative Agreement	*	*	*	*	*	*	*	*	*	*
Total Results	*	*	*	*	*	*	*	*	*	*

* Note: Based on GC/MS data instead of Commercial Kit.

Precision
A study was conducted at three hospitals by laypersons using three different lots of product to demonstrate the within run, between run and between operator precision. An identical card of coded specimens, containing drugs at concentrations of negative, ± 50% and ± 25% cut-off level, was labeled, blinded and tested at each site. **The results gained ± 75% accuracy in ± 25% cut-off level specimen and 100% accuracy in negative and ± 50% cut-off level specimen.**

Analytical Sensitivity
A drug-free urine pool was spiked with drugs at the listed concentrations. The results are summarized below.

Drug Concentration Cut-off Range	ACE 5000	AMP 1,000	AMP500	AMP 300	BAR 300	BAR 200	BZO500	BZO300
0% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-50% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-25% Cut-off	26 4	26 4	25 5	27 3	27 3	26 4	27 3	27 3
Cut-off	14 16	15 15	15 15	15 15	16 14	15 15	15 15	15 15
+25% Cut-off	3 27	3 27	3 27	4 26	4 26	3 27	4 26	3 27
+50% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30
+300% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30

Drug Concentration Cut-off Range	BZO200	BZO100	BUP 10	BUP 5	COC300	COC 200	COC 150	COC100
0% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-50% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-25% Cut-off	27 3	27 3	26 4	26 4	26 4	26 4	27 3	27 3
Cut-off	16 14	14 16	14 16	14 16	13 17	14 16	16 14	16 14
+25% Cut-off	3 27	3 27	3 27	3 27	3 27	3 27	4 26	4 26
+50% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30
+300% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30

Drug Concentration Cut-off Range	THC 150	THC 50	THC 25	MTD 300	MTD 200	MET 1,000	MET 500	MET 300
0% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-50% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-25% Cut-off	27 3	26 4	27 3	26 4	25 5	27 3	27 3	27 3
Cut-off	15 15	14 16	15 15	14 16	15 15	16 14	16 14	15 15
+25% Cut-off	4 26	3 27	4 26	3 27	4 26	3 27	4 26	3 27
+50% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30
+300% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30

Drug Concentration Cut-off Range	MDMA 1,000	MDMA 500	MOP/ OPI 300	MOP/ OPI 100	OPI 2000	PCP	PPX	TCA 1000
0% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-50% Cut-off	30 0	30 0	30 0	30 0	30 0	30 0	30 0	30 0
-25% Cut-off	26 4	25 5	27 3	26 4	27 3	25 5	26 4	25 5
Cut-off	15 15	14 16	15 15	15 15	14 16	15 15	15 15	15 15
+25% Cut-off	5 25	4 26	5 25	3 27	4 26	3 27	3 27	4 26
+50% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30
+300% Cut-off	0 30	0 30	0 30	0 30	0 30	0 30	0 30	0 30

Drug Concentration Cut-off Range	TML 100		TML 200		TML 300		KET 1,000		KET 500		KET 100		MQL	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	27	3	27	3	27	3	26	4	27	3	26	4
Cut-off	15	15	15	15	15	15	15	15	16	14	15	15	15	15
+25% Cut-off	4	26	4	26	3	27	3	27	4	26	3	27	4	26
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	OXY100		COT 200		COT 100		EDDP 300		EDDP 100		FYL 20		FYL 10		K2 50	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	27	3	27	3	27	3	26	4	27	3	27	3	27	3
Cut-off	15	15	15	15	14	16	15	15	15	15	14	16	15	15	15	15
+25% Cut-off	4	26	4	26	4	26	4	26	3	27	4	26	3	27	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	K2 30		6-MAM 10		MDA 500		ETG500		ETG1000		CLO 400		CLO 150	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	27	3	26	4	26	4	26	4	26	4	26	4
Cut-off	16	14	15	15	15	15	15	15	15	14	16	14	16	14
+25% Cut-off	4	26	4	26	3	27	3	27	3	27	5	25	5	25
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	LSD20		LSD50		MPD 300		ZOL		MDMA300		OXY300		DIA 300	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	29	1	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	27	3	*	*	26	4	25	5	27	3	27	3
Cut-off	14	16	14	16	15	15	14	16	15	15	15	15	15	15
+25% Cut-off	3	27	3	27	*	*	5	25	3	27	4	26	3	27
+50% Cut-off	0	30	0	30	1	29	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	DIA 200		ZOP 50		MCAT 500		7-ACL 300		7-ACL 200		7-ACL 100		CFYL500	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	29	1	30	0
-25% Cut-off	27	3	27	3	28	2	26	4	27	3	27	3	25	5
Cut-off	15	15	17	13	17	13	14	16	14	16	13	17	14	16
+25% Cut-off	3	27	4	26	3	27	5	25	3	27	4	26	6	24
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	1	29	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	CAF 1000		CAT 150		TRO 350		MDPV 1000		MEP 100		ALP 100		THC 300	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	27	3	27	3	26	4	27	3	28	2	27	4
Cut-off	17	13	17	13	15	15	14	16	17	13	17	13	14	16
+25% Cut-off	5	25	4	26	3	27	5	25	3	27	4	26	4	26
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	THC 20		TCA 500		COT 500		COT 50		COT 10		LSD 10		MPD 1,000	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	27	3	26	4	25	5	27	3	27	3	27	3	26	4
Cut-off	14	16	14	16	15	15	16	14	15	15	14	16	14	16
+25% Cut-off	2	28	3	27	3	27	4	26	4	26	3	27	5	25
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	MDPV 500		ABP 10		α-PVP 1,000		CNB 500		MPRD 100		PGB 50,000		TZD 200	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	25	5	25	5	26	4	27	3	27	3	25	5	28	2
Cut-off	15	15	15	15	15	15	14	16	15	15	15	15	14	16
+25% Cut-off	3	27	4	26	3	27	4	26	3	27	5	25	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Concentration Cut-off Range	UR-144 25		ZAL 100		MES 100		GAB 2,000		MOP/OPI 200		ETG 300		α-PVP 500	
	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	28	2	27	3	27	3	27	3	26	4	25	5	27	3
Cut-off	15	15	15	15	14	16	14	16	15	15	16	14	15	15
+25% Cut-off	3	27	3	27	4	26	4	26	4	26	4	26	3	27
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30
+300% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30

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

Analytes	Concentration (ng/mL)		Analytes	Concentration (ng/mL)	
ACETAMINOPHEN (ACE)					
Acetaminophen	5,000				
AMPHETAMINE (AMP 1,000)					
D,L-Amphetamine sulfate	300		Phentermine		1,000
L-Amphetamine	25,000		Maprotiline		50,000
(±) 3,4-Methylenedioxy amphetamine	500		Methoxyphenamine		6,000
			D-Amphetamine		1,000
AMPHETAMINE (AMP 500)					
D,L-Amphetamine sulfate	150		Phentermine		500
L-Amphetamine	12,500		Maprotiline		25,000
(±) 3,4-Methylenedioxy amphetamine	250		Methoxyphenamine		3,000
			D-Amphetamine		500
AMPHETAMINE (AMP 300)					
D,L-Amphetamine sulfate	75		Phentermine		300
L-Amphetamine	10,000		Maprotiline		15,000
(±) 3,4-Methylenedioxy amphetamine	150		Methoxyphenamine		2,000
			D-Amphetamine		300
BARBITURATES (BAR 300)					
Amobarbital	5,000		Alphenol		600
5,5-Diphenylhydantoin	8,000		Aprobarbital		500
Allobarbitol	600		Butabarbital		200
Barbital	8,000		Butalbital		8,000
Talbutal	200		Butethal		500
Cyclopentobarbital	30,000		Phenobarbital		300
Pentobarbital	8,000		Secobarbital		300
BARBITURATES (BAR 200)					
Amobarbital	3,000		Alphenol		400
5,5-Diphenylhydantoin	5,000		Aprobarbital		300
Allobarbitol	400		Butabarbital		150
Barbital	5,000		Butalbital		5,000
Talbutal	150		Butethal		300
Cyclopentobarbital	20,000		Phenobarbital		200
Pentobarbital	5,000		Secobarbital		200
BENZODIAZEPINES (BZO 500)					
Alprazolam	200		Bromazepam		1,500
a-hydroxylalprazolam	2,500		Chlordiazepoxide		1,500
Clobazam	300		Nitrazepam		300
Clonazepam	800		Norchlordiazepoxide		200
Clorazepatedipotassium	800		Nordiazepam		1,500
Delorazepam	1,500		Oxazepam		500
Desalkylflurazepam	300		Temazepam		300
Flunitrazepam	300		Diazepam		500
(±) Lorazepam	5,000		Estazolam		10,000
RS-Lorazepamglucuronide	300		Triazolam		5,000
Midazolam	10,000				
BENZODIAZEPINES (BZO 300)					
Alprazolam	100		Bromazepam		900
a-hydroxylalprazolam	1,500		Chlordiazepoxide		900
Clobazam	200		Nitrazepam		200
Clonazepam	500		Norchlordiazepoxide		100
Clorazepatedipotassium	500		Nordiazepam		900
Delorazepam	900		Oxazepam		300
Desalkylflurazepam	300		Temazepam		100
Flunitrazepam	200		Diazepam		300
(±) Lorazepam	3,000		Estazolam		6,000
RS-Lorazepamglucuronide	200		Triazolam		3,000
Midazolam	6,000				

METHYLENEDIOXYMETHAMPHETAMINE (MDMA500) Ecstasy			
(±) 3,4-Methylenedioxy methamphetamine HCl	500	3,4-Methylenedioxyethyl-amphet amine	300
(±) 3,4-Methylenedioxy amphetamine HCl	3,000		
METHYLENEDIOXYMETHAMPHETAMINE (MDMA300) Ecstasy			
(±) 3,4-Methylenedioxy methamphetamine HCl	300	3,4-Methylenedioxyethyl-amphet amine	180
(±) 3,4-Methylenedioxy amphetamine HCl	1,800		
MORPHINE (MOP/OPI 300)			
Codeine	200	Norcodeine	6,000
Levorphanol	1,500	Normorphone	50,000
Morphine-3-β-D-Glucuronide	800	Oxycodone	30,000
Ethylmorphine	6,000	Oxymorphone	50,000
Hydrocodone	50,000	Procaïne	15,000
Hydromorphone	3,000	Thebaine	6,000
6-Monoacethylmorphine	300	Morphine	300
MORPHINE/OPIATE (MOP/OPI 200)			
Codeine	160	Norcodeine	4,000
Levorphanol	1,000	Normorphone	40,000
Morphine-3-β-D-Glucuronide	600	Oxycodone	20,000
Ethylmorphine	4,000	Oxymorphone	40,000
Hydrocodone	40,000	Procaïne	10,000
Hydromorphone	2,000	Thebaine	4,000
6-Monoacethylmorphine	200	Morphine	200
MORPHINE (MOP/OPI 100)			
Codeine	80	Norcodeine	2,000
Levorphanol	500	Normorphone	20,000
Morphine-3-β-D-Glucuronide	300	Oxycodone	10,000
Ethylmorphine	2,000	Oxymorphone	20,000
Hydrocodone	20,000	Procaïne	5,000
Hydromorphone	1,000	Thebaine	2,000
6-Monoacethylmorphine	200	Morphine	100
Methaqualone (MQL 300)			
Methaqualone	300		
MORPHINE/OPIATE (OPI 2,000)			
Codeine	2,000	Morphine	2,000
Ethylmorphine	3,000	Norcodeine	25,000
Hydrocodone	50,000	Normorphone	50,000
Hydromorphone	15,000	Oxycodone	25,000
Levorphanol	25,000	Oxymorphone	25,000
6-Monoacethylmorphine	3,000	Procaïne	50,000
Morphine 3-β-D-Glucuronide	2,000	Thebaine	25,000
PHENCYCLIDINE (PCP)			
Phencyclidine	25	4-Hydroxyphencyclidine	12,500
PROPOXYPHENE (PPX)			
D-Propoxyphene	300	D-Norpropoxyphene	300
TRICYCLIC ANTIDEPRESSANTS (TCA1,000)			
Nortriptyline	1,000	Imipramine	400
Nordoxepine	500	Clomipramine	50,000
Trimipramine	3,000	Doxepine	2,000
Amitriptyline	1,500	Maprotiline	2,000
Promazine	3,000	Promethazine	50,000
Desipramine	200	Perphenazine	50,000
Cyclobenzaprine	2,000	Dithiaden	10,000
TRICYCLIC ANTIDEPRESSANTS (TCA500)			
Nortriptyline	500	Imipramine	200
Nordoxepine	250	Clomipramine	25,000
Trimipramine	1,500	Doxepine	1,000
Amitriptyline	750	Maprotiline	1,000
Promazine	1,500	Promethazine	25,000
Desipramine	100	Perphenazine	25,000
Cyclobenzaprine	1,000	Dithiaden	5,000
TRAMADOL (TML 100)			
n-Desmethyl-cis-tramadol	200	b-Desmethyl-cis-tramadol	10,000
Cis-tramadol	100	Phencyclidine	100,000
Procyclidine	100,000	d,l-O-Desmethyl venlafaxine	50,000
TRAMADOL (TML 200)			
n-Desmethyl-cis-tramadol	400	b-Desmethyl-cis-tramadol	20,000
Cis-tramadol	200	Phencyclidine	200,000
Procyclidine	200,000	d,l-O-Desmethyl venlafaxine	100,000
TRAMADOL (TML 300)			
n-Desmethyl-cis-tramadol	600	b-Desmethyl-cis-tramadol	30,000
Cis-tramadol	300	Phencyclidine	300,000
Procyclidine	300,000	d,l-O-Desmethyl venlafaxine	150,000
KETAMINE (KET1,000)			
Ketamine	1,000	Benzphetamine	25,000
Dextromethorphan	2,000	(+) Chlorpheniramine	25,000
Methoxyphenamine	25,000	Clonidine	100,000
d-Norpropoxyphene	25,000	EDDP	50,000
Promazine	25,000	4-Hydroxyphencyclidine	50,000
Promethazine	25,000	Levorphanol	50,000
Pentazocine	25,000	MDE	50,000
Phencyclidine	25,000	Meperidine	25,000

Tetrahydrozoline	500	d-Methamphetamine	50,000
Mephentermine	25,000	l-Methamphetamine	50,000
(1R, 2S) - (-)-Ephedrine	100,000	3,4-Methylenedioxy methampheta mine (MDMA)	100,000
Disopyramide	25,000	Thioridazine	50,000
KETAMINE (KET500)			
Ketamine	500	Benzphetamine	12,500
Dextromethorphan	1,000	(+) Chlorpheniramine	12,500
Methoxyphenamine	12,500	Clonidine	50,000
d-Norpropoxyphene	12,500	EDDP	25,000
Promazine	12,500	4-Hydroxyphencyclidine	25,000
Promethazine	12,500	Levorphanol	25,000
Pentazocine	12,500	MDE	25,000
Phencyclidine	12,500	Meperidine	12,500
Tetrahydrozoline	250	d-Methamphetamine	25,000
Mephentermine	12,500	l-Methamphetamine	25,000
(1R, 2S) - (-)-Ephedrine	50,000	3,4-Methylenedioxy methampheta mine (MDMA)	50,000
Disopyramide	12,500	Thioridazine	25,000
KETAMINE (KET300)			
Ketamine	300	Benzphetamine	6,250
Dextromethorphan	600	(+) Chlorpheniramine	6,250
Methoxyphenamine	6,250	Clonidine	30,000
d-Norpropoxyphene	6,250	EDDP	15,000
Promazine	6,250	4-Hydroxyphencyclidine	15,000
Promethazine	6,250	Levorphanol	15,000
Pentazocine	6,250	MDE	15,000
Phencyclidine	6,250	Meperidine	6,250
Tetrahydrozoline	150	d-Methamphetamine	15,000
Mephentermine	6,250	l-Methamphetamine	15,000
(1R, 2S) - (-)-Ephedrine	30,000	3,4-Methylenedioxy methampheta mine (MDMA)	30,000
Disopyramide	6,250	Thioridazine	15,000
KETAMINE (KET100)			
Ketamine	100	Benzphetamine	2,000
Dextromethorphan	200	(+) Chlorpheniramine	2,000
Methoxyphenamine	2,000	Clonidine	10,000
d-Norpropoxyphene	2,000	EDDP	5,000
Promazine	2,000	4-Hydroxyphencyclidine	5,000
Promethazine	2,000	Levorphanol	5,000
Pentazocine	2,000	MDE	5,000
Phencyclidine	2,000	Meperidine	2,000
Tetrahydrozoline	50	d-Methamphetamine	5,000
Mephentermine	2,000	l-Methamphetamine	5,000
(1R, 2S) - (-)-Ephedrine	10,000	Thioridazine	5,000
Disopyramide	2,000	3,4-Methylenedioxy methampheta mine (MDMA)	10,000
Oxycodone (OXY100)			
Oxycodone	100	Hydromorphone	50,000
Oxymorphone	300	Naloxone	25,000
Levorphanol	50,000	Naltrexone	25,000
Hydrocodone	25,000		
Oxycodone (OXY300)			
Oxycodone	300	Hydromorphone	150,000
Oxymorphone	900	Naloxone	75,000
Levorphanol	150,000	Naltrexone	75,000
Hydrocodone	75,000		
Cotinine (COT 500)			
(-) Cotinine	500	(-) Nicotine	12,500
Cotinine (COT 200)			
(-) Cotinine	200	(-) Nicotine	5,000
Cotinine (COT 100)			
(-) Cotinine	100	(-) Nicotine	2,500
Cotinine (COT 50)			
(-) Cotinine	50	(-) Nicotine	1,250
Cotinine (COT 10)			
(-) Cotinine	10	(-) Nicotine	250
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP300)			
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)			300
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP100)			
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)			100
Fentanyl (FYL20)			
Alfentanil	600,000	Buspirone	15,000
Fenfluramine	50,000	Fentanyl	100
Norfentanyl	20	Sufentanyl	50,000
Fentanyl (FYL10)			
Alfentanil	300,000	Buspirone	8,000
Fenfluramine	25,000	Fentanyl	50
Norfentanyl	10	Sufentanyl	25,000
Synthetic Marijuana (K2-50)			
JWH-018 5-Pentanoic acid	50	JWH-073 4-butanoic acid	50
JWH-018 4-Hydroxybutyl	400	JWH-018 5-Hydroxybutyl	500
JWH-073 4-Hydroxybutyl	500		
Synthetic Marijuana (K2-30)			
JWH-018 5-Pentanoic acid	30	JWH-073 4-butanoic acid	30

JWH-018 4-Hydroxybutyl	250	JWH-018 5-Hydroxybutyl	300
JWH-073 4-Hydroxybutyl	300		
6-mono-aceto-morphine (6-MAM)			
6-Monoacethylmorphine	10	Morphine	100,000
(±) 3, 4-Methylenedioxyamphetamine (MDA 500)			
(±) 3,4-Methylenedioxy amphetamine	500	Methoxyphenamine	5,000
D,L-Amphetamine sulfate	400	D-Amphetamine	2,000
L-Amphetamine	30,000	Phentermine	2,000
		Maprotiline	100,000
Ethyl- β-D-Glucuronide(ETG500)			
Ethyl- β-D-Glucuronide	500	Propyl β-D-glucuronide	50,000
Glucuronic Acid	100,000	Ethanol	>100,000
Methanol	>100,000		
Ethyl- β-D-Glucuronide(ETG1,000)			
Ethyl- β-D-Glucuronide	1,000	Propyl β-D-glucuronide	100,000
Glucuronic Acid	>100,000	Ethanol	>100,000
Methanol	>100,000		
Ethyl- β-D-Glucuronide(ETG300)			
Ethyl- β-D-Glucuronide	300	Propyl β-D-glucuronide	30,000
Glucuronic Acid	60,000	Ethanol	>100,000
Methanol	>100,000		
CLONAZEPAM(CLO 400)			
Clonazepam	400	Flunitrazepam	300
Alprazolam	200	(+) Lorazepam	1,250
a-hydroxyalprazolam	2,000	RS-Lorazepam glucuronide	250
Bromazepam	1,000	Midazolam	5,000
Chlordiazepoxide	1,000	Nitrazepam	200
Clobazam	250	Norchlordiazepoxide	200
Clorazepate dipotassium	600	Nordiazepam	1,000
Delorazepam	1,000	Oxazepam	350
Desalkylflurazepam	250	Temazepam	150
Diazepam	300	Triazolam	5,000
Estazolam	1,250		
CLONAZEPAM(CLO 150)			
Clonazepam	150	Flunitrazepam	120
Alprazolam	75	(+) Lorazepam	500
a-hydroxyalprazolam	750	RS-Lorazepam glucuronide	100
Bromazepam	400	Midazolam	2,000
Chlordiazepoxide	400	Nitrazepam	75
Clobazam	100	Norchlordiazepoxide	75
Clorazepate dipotassium	250	Nordiazepam	400
Delorazepam	400	Oxazepam	130
Desalkylflurazepam	100	Temazepam	60
Diazepam	120	Triazolam	2,000
Estazolam	500		
LYSERGIC ACID DIETHYLAMIDE (LSD 10)			
Lysergic Acid Diethylamide	10		
LYSERGIC ACID DIETHYLAMIDE (LSD 20)			
Lysergic Acid Diethylamide	20		
LYSERGIC ACID DIETHYLAMIDE (LSD 50)			
Lysergic Acid Diethylamide	50		
METHYLPHENIDATE (MPD 300)			
Methylphenidate (Ritalin)	300	Ritalinic Acid	1,000
METHYLPHENIDATE (MPD 1,000)			
Ritalinic Acid	1,000	Methylphenidate (Ritalin)	300
ZOLPIDEM(ZOL 50)			
Zolpidem	50		
Diazepam (DIA 300)			
Diazepam	300	Midazolam	6,000
Clobazam	200	Nitrazepam	200
Clonazepam	500	Norchlordiazepoxide	100
Clorazepate dipotassium	500	Nordiazepam	900
Alprazolam	100	Flunitrazepam	200
a-hydroxyalprazolam	1,500	(+) Lorazepam	3,000
Bromazepam	900	RS-Lorazepam glucuronide	200
Chlordiazepoxide	900	Triazolam	3,000
Estazolam	6,000	Temazepam	100
Delorazepam	900	Oxazepam	300
Desalkylflurazepam	200		
Diazepam (DIA 200)			
Diazepam	200	Midazolam	4000
Clobazam	120	Nitrazepam	120
Clonazepam	300	Norchlordiazepoxide	70
Clorazepate dipotassium	300	Nordiazepam	600
Alprazolam	70	Flunitrazepam	120
a-hydroxyalprazolam	1000	(+) Lorazepam	2000
Bromazepam	600	RS-Lorazepam glucuronide	120
Chlordiazepoxide	600	Triazolam	2000
Estazolam	4000	Temazepam	70
Delorazepam	600	Oxazepam	200
Desalkylflurazepam	120		
Zopiclone (ZOP 50)			
Zopiclone-x-oxide	50	Zopiclone	50
Methcathinone (MCAT 500)			
S(-)-Methcathinone HCl	500	R(+)-Methcathinone HCl	1500

Methoxyphenamine	100000	3-Fluoromethcathinone HCl	1500
7-AMINOCLONAZEPAM(7-ACL300)			
a-hydroxyalprazolam	6,000	Flunitrazepam	3,000
Bromazepam	6,000	RS-Lorazepam glucuronide	2,700
Chlordiazepoxide	6,000	Norchlordiazepoxide	4,500
Clobazam	9,000	Nordiazepam	15,000
Clonazepam	2,400	Temazepam	9,000
Delorazepam	6,000	7-Aminoclonazepam	300
Desalkylflurazepam	6,000		
7-AMINOCLONAZEPAM(7-ACL200)			
a-hydroxyalprazolam	4,000	Flunitrazepam	2,000
Bromazepam	4,000	RS-Lorazepam glucuronide	1,800
Chlordiazepoxide	4,000	Norchlordiazepoxide	3,000
Clobazam	6,000	Nordiazepam	10,000
Clonazepam	1,600	Temazepam	6,000
Delorazepam	4,000	7-Aminoclonazepam	200
Desalkylflurazepam	4,000		
7-AMINOCLONAZEPAM(7-ACL100)			
a-hydroxyalprazolam	2,000	Flunitrazepam	1,000
Bromazepam	2,000	RS-Lorazepam glucuronide	900
Chlordiazepoxide	2,000	Norchlordiazepoxide	1,500
Clobazam	3,000	Nordiazepam	5,000
Clonazepam	800	Temazepam	3,000
Delorazepam	2,000	7-Aminoclonazepam	100
Desalkylflurazepam	2,000		
CARFENTANYL(CFYL500)			
Carfentanyl	500	Fentanyl	100
CAFFEINE (CAF 1000)			
Caffeine	1000		
CATHINE (CAT 150)			
(+)-Norpseudoephedrine HCl (Cathine)	150	(+)-3,4-Methylenedioxyamphetamine (MDA)	100
d,l-Amphetamine	100	p-Hydroxyamphetamine	100
Tryptamine	12,500	Methoxyphenamine	12,500
TROPICAMIDE (TRO 350)			
Tropicamide	350		
3, 4-METHYLENEDIOXYPYROVALERONE (MDPV1,000)			
3, 4-methylenedioxy pyrovalerone	1,000		
3, 4-METHYLENEDIOXYPYROVALERONE (MDPV500)			
3, 4-methylenedioxy pyrovalerone	500		
MEPHEDRONE (MEP100)			
Mephedrone HCl	100	R(+)-Methcathinone HCl	1500
S(-)-Methcathinone HCl	500	3-Fluoromethcathinone HCl	1500
4-Fluoromethcathinone HCl	300	Methoxyphenamine	100,000
ALPRAZOLAM(ALP 100)			
Benzodiazepines	300	Flunitrazepam	200
a-hydroxyalprazolam	1,500	(±) Lorazepam	3,000
Bromazepam	900	RS-Lorazepam glucuronide	200
Chlordiazepoxide	900	Midazolam	6,000
Clobazam	200	Nitrazepam	200
Clonazepam	500	Norchlordiazepoxide	100
Clorazepatedipotassium	500	Nordiazepam	900
Delorazepam	900	Oxazepam	300
Desalkylflurazepam	200	Temazepam	100
Diazepam	300	Triazolam	3,000
Estazolam	6000		
AB-PINACA (ABP 10)			
AB-PINACA	10	UR-144 4-hydroxypentyl	10,000
AB-PINACA 5-Pentanoic	10	AB-PINACA 5-hydroxypentyl	10,000
AB-PINACA 5-hydroxypentyl	10	ADB-PINACA N-(5-hydroxypentyl)	30
AB-FUBINACA	10	ADB-PINACA Pentanoic Acid	10
AB-PINACA 4-hydroxypentyl	10,000	5-fluoro AB-PINACA N-(4-hydroxypentyl)	30
UR-144 5-Pentanoic	5,000	5-fluoro AB-PINACA	25
UR-144 5-hydroxypentyl	10,000		
alpha-Pyrrolidinovaleerophenone (α-PVP1,000)			
alpha-Pyrrolidinovaleerophenone	1,000		
alpha-Pyrrolidinovaleerophenone (α-PVP500)			
alpha-Pyrrolidinovaleerophenone	500		
Cannabiol (CNB)			
cannabiol	500	11-nor-Δ9-THC-9 COOH	300
Δ9-THC	10,000		
Meperidine (MPRD)			
Normeperidine	100	Meperidine	100
Pregabalin(PGB)			
Pregabalin	50		
Trazodone(TZD)			
Trazodone	200		
UR-144			
UR-144 5-Pentanoic acid	25	5-fluoro AB-Pinaca N-(4-hydroxypentyl)	10,000

UR-144 4-hydroxypentyl	10,000	ADB-PINAC N-(4-hydroxypentyl)	>10,000
UR-144 5-hydroxypentyl	5,000	AB-PINACA 4-hydroxypentyl	>10,000
XLR-11 4-hydroxypentyl	2,000		
Zaleplon(ZAL)			
Zaleplon	100		
Mescaline(MES)			
Mescaline	100		
Gabapentin(GAB)			
Gabapentin	2,000		

Effect of Urinary Specific Gravity

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

Effect of Urinary pH

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

Cross-Reactivity

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

Non Cross-Reacting Compounds

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

【ALCOHOL PERFORMANCE CHARACTERISTICS】

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

【ALCOHOL ASSAY SPECIFICITY】

The **Urine Alcohol Rapid Test** will react with methyl, ethyl and allyl alcohols.

【ALCOHOL INTERFERING SUBSTANCES】

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

- Agents which enhance color development
 - Peroxidases
 - Strong oxidizers
- Agents which inhibit color development
 - Reducing agents: Ascorbic acid, Tannic acid, Pyrogallol, Mercaptans and tosylates, Oxalic acid, Uric Acid
 - Bilirubin
 - L-dopa
 - L-methyldopa
 - Methamprone

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Number: 146061700
Effective date: 2019-06-13