

Multi-Drug Test Panel W/WO Adulteration (Urine) Product Insert

For laboratory in vitro diagnostic use only.

INTENDED USE The Rapid Response[™] Multi-Drug Test Panel (Urine) is a rapid chromatographic immunoassay for the qualitative and simultaneous detection of one to thirty of the following drugs in a variety of combinations in human urine. The designed cutoff concentrations and direct calibrator for these drugs are as follows:

Parameter	Calibrator	Cut-off(ng/mL)
ACE	Acetaminophen	5000
AMP	d-Amphetamine	1000/500/300
BAR	Secobarbital	300
BUP	BUP-3-D-Glucuronide	10/5
BZO	Oxazepam	500/300/200/100
COC	Benzoylecgonine	300/200/150/100
COT	(-)-Cotinine	600/300/200
EDDP	2-Ethylidine-1,5-dimethyl-3,3-diphenylpyrrolidine	300/100
ETG	Ethyl Glucuronide	300
FYL	Norfentanyl/Fentanyl	200/10
HMO	Hydromorphone	250
K2	JWH-073/JWH-018	50
KET	Ketamine	1,000
LSD	9,10-Didehydro-N,N-diethyl-6-methylergoline-8beta-carboxamide	50
6-MAM	6-Monoacetylmorphine	10
MDMA	3,4-Methylenedioxy-MET	1000/500
MET	Methamphetamine	1000/500/300
MOP	Morphine	300/200/100
MPD	Methylphenidate	300
MQL	Methaqualone	300
MTD	Methadone	300
OPI	Morphine	2000/1000
OXY	Oxycodone	300/100
PCP	Phencyclidine	25
PPX	D-Propoxyphene	300
TCA	Nortriptyline	1000
THC	11-nor-△ ⁹ -THC-9-COOH	200/150/50/25
TRA	Tramadol	300/100
ZOL	Zolpidem	50
Adulteration (Adulteration (

The DOA test is used to obtain visual qualitative result and is intended to assist in the determination of drug compliance.

This assay provides only a preliminary analytical test result. A more specific alternative chemical method must be used in order to obtain a confirmed analytical result. Gas Chromatography/ Mass Spectrometry (GC/MS) or Liquid Chromatography/ Mass Spectrometry (LC/MS) are 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.

The Urine Adulteration Test Strips (Urine) are a semi-quantitative color comparison screen for the detection of Creatinine, Nitrite, Glutaraldehyde, pH, Specific Gravity, Oxidants and Pyridinium Chlorochromate in human urine. This test provides a preliminary screen only. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Abnormal results should be sent to a laboratory for confirmation.

PRINCIPLE

The Rapid Response[™] Multi-Drug Test Panel (Urine) is one-step immunoassay in which chemically labeled drugs (drug-protein conjugates) compete for limited antibody binding sites with drugs which may be present in urine. The test membrane strips are pre-coated with drug-protein conjugates on the test band(s). For each strip, the drug antibody-colloidal gold conjugate pad is placed at one end of the membrane. In the absence of drug in the urine, the solution of the colored antibody-colloidal gold conjugate move along with the sample solution upward chromatographically by capillary action across the membrane to the immobilized drug-protein conjugate zone on the test band region. The colored antibody-gold conjugate then attach to the drug-protein conjugates to form visible lines as the antibody complex with the drug conjugate of the drug. When the drug is present in the urine, the drug/metabolite antigen competes with drug-protein conjugate on the test band region of the colored antibody-colloidal gold conjugate on the test band region for the limited antibody. When a sufficient concentration of the drug is present, it will fill the limited antibody binding sites. This will prevent attachment of the colored antibody-colloidal gold conjugate to the drug protein conjugate cone on the test band region. Therefore, absence of the colored antibody colloidal gold conjugate on the test band region for the limited antibody. When a sufficient concentration of the drug is present, it will fill the limited antibody binding sites. This will prevent attachment of the colored antibody-colloidal gold conjugate binding sites.

region indicates a positive result.

A control band with a different antigen/antibody reaction is added to the immune-chromatographic membrane strip at the control region (C) to indicate that the test has performed properly. This control line should always appear regardless of the presence of drug or metabolite. If the control line does not appear the test strip should be discarded.

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 Creatine, pH, and Specific Gravity and to detect the presence of Glutaraldehyde, Nitrite and Oxidants/Pyridinium Chlorochromate in urine.

Creatinine (CRE): Tests for specimen dilution. Creatinine is a waste product of Creatine, and is an amino-acid contained in muscle tissue and found in urine.¹ A person may attempt to foil a drug 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 to circumvent drug testing. Low Creatinine and Specific Gravity levels may indicate diluted urine. The absence of Creatinine (<5 mg/dL) is indicative of a specimen not consistent with human urine.

Nitrite (NIT): Tests for commonly used commercial adulterants. They work by oxidizing the major cannabinoid metabolite THC-COOH.² Normal urine should contain no trace of Nitrites. Positive results generally indicate the presence of an adulterant.

Glutaraldehyde (**GLUT**): Tests for the presence of aldehydes. Adulterants can contain Glutaraldehyde and can cause false negative screening 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 generally indicates 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 that the specimen has been altered.

Specific Gravity (SG): Tests for specimen dilution. The normal range is from 1.003 to 1.030. Values outside this range may be the result of specimen dilution or adulteration.

Oxidants/Pyridinium Chlorochromate (OXI/PCC): Tests for the presence of oxidizing reagents such as bleach and hydrogen peroxide. Pyridinium Chlorochromate is commonly used adulterant.³ Normal human urine should not contain Oxidants or PCC.

REAGENTS AND MATERIALS

- Rapid Response[™] Multi-Drug Test Panel (Urine) Product Insert
- Adulteration Color Chart (when applicable)
 - Materials Required but Not provided

Timer

Specimen collection container
Positive and negative urine controls

PRECAUTIONS

- · For laboratory in vitro diagnostic use only.
- The pouch containing the test device should be sealed. Discard the test device if package is ripped or torn.
- Urine specimens may be potentially infectious. Proper handling and disposal methods should be established
- Avoid cross-contamination of urine samples by using a new specimen collection container and specimen pipette for each urine sample.

STORAGE AND STABILITY

The pouched Rapid Response[™] Multi-Drug Test Panel (Urine) should be stored at normal humidity and room temperature or refrigerated (2-30°C; 36-86°F) until the expiration date stated on the pouch. The product is humidity-sensitive and should be used immediately after being opened. Any test in an improperly sealed pouch should be discarded.

SPECIMEN COLLECTION AND STORAGE

Urine Collection: The Rapid ResponseTM Multi-Drug Test Panel (Urine) is formulated for use with urine specimens. Fresh urine does not require any special handling or pretreatment. The urine specimen must 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 clear specimen for testing.

Urine Storage: It is recommended the collected fresh urine to be tested immediately. Fresh urine maybe stored at room temperature (25°C; 77°F) for up to 4 hours or to be refrigerated (2-8°C; 36-86°F) for up to 48 hours prior to performing the test. For prolonged storage, specimens may be frozen and stored below -20°C (-4°F). Specimens that have been refrigerated must be brought to room temperature prior to testing. Previously frozen specimens must be thawed, brought to room temperature, and mixed thoroughly prior to testing.

Note: Urine specimens and all materials coming in contact with them should be handled and disposed of as if capable of transmitting infection. Avoid contact with skin by wearing gloves and proper laboratory attire.

PROCEDURE

IMPORTANT Test device, patient's sample, and controls should be brought to room temperature

$(15\text{-}30^{\circ}\text{C};\,59\text{-}86^{\circ}\text{F})$ prior to testing. Do not open pouches until ready to perform the assay.

- 1. Remove the test device from the sealed pouch and use it as soon as possible.
- 2. Dip the sample pad area of the dipstick strip or dipstick card in the urine specimen submerging only up to
- the "MAX" mark of the dipstick strip or the edge of the dipstick card. 3. For the adulteration tests, visually compare the color of the reaction pad with the color card, and the results
- should be read at 2 minutes. Do not interpret the results after 5 minutes.



4. The drug strip result(s) should be read at 5 minutes. However, negative results may be read and reported as early as 3 minutes but positive results must be reported at 5 minutes only. Do not interpret the drug strip result(s) after 10 minutes after the addition of sample.

INTERPRETATION OF RESULTS



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POSITIVE: Only one colored band appears, in the control region (C). No apparent colored band appears in the test region (T).

C NEGATIVE: Two colored bands appear on the membrane. One band appears in the control region (C) and another band appears in the test region (T).

INVALID: Control band fails to appear. Results from any test which has not produced a control band at the specified read time must be discarded. Please review the procedure and repeat with a new test. If the problem persists, discontinue using the kit immediately and contact your local distributor.

NOTE: 1. The intensity of color in the test region (T) may vary depending on the concentration of analytes present in the specimen. Therefore, any shade of color in the test region should be considered negative. Note that this is a qualitative test only, and cannot determine the concentration of analytes in the specimen. 2. Insufficient specimen volume, incorrect operating procedure or expired tests are the most likely reasons for control band failure.

The Result of Adulteration Strips: For specific color please reference the Adulteration Color Chart.

NOTE: The Urine Adulteration Test Strips (Urine) 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.

Creatinine: Normal Creatinine levels are between 20 and 350 mg/dL. Under rare conditions, certain kidney diseases show dilute urine. **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** 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. **Specific Gravity:** Elevated levels of protein in urine may cause abnormally high Specific Gravity values. **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.

QUALITY CONTROL

• Good laboratory practice recommends the use of control materials to ensure proper kit performance. Quality control specimens are available from commercial sources and are recommended to be used daily. Use the same assay procedure as with a urine specimen. Controls should be challenging to the assay cutoff concentration. If control values do not fall within established limits, assay results are invalid. Users should follow the appropriate federal, state, and local guidelines concerning the running of external quality controls.

 The Rapid Response[™] Multi-Drug Test Panel (Urine) provides built-in process control with a different antigen/antibody reaction at the control region (C) in each strip. This control line should always appear regardless of the presence of drug or metabolite. If the control line does not appear, the test device should be discarded. The presence of this control band in the control region serves as 1) verification that sufficient volume is added, 2) that proper flow is obtained.

LIMITATIONS OF THE TEST

- The Rapid Response[™] Multi-Drug Test Panel (Urine) is for laboratory *in vitro* diagnostic use, and should be only used for the qualitative detection of drugs of abuse.
- 2. The assay is designed for use with human urine only.

- 3. A positive result with any of the tests indicates only the presence of a drug/metabolite and does not indicate or measure intoxication.
- 4. There is a possibility that technical or procedural error as well other substances as factors not listed may interfere with the test and cause false results. See SPECIFICITY for lists of substances that will produce either positive results, or that do not interfere with test performance.
- 5. If a drug/metabolite is found present in the urine specimen, the assay does not indicate frequency of drug use or distinguish between drug of abuse and certain foods and medicines.

PERFORMANCE CHARACTERISTICS

Accuracy Accuracy of the DOA Test Panels was established by running urine sample against GC/MS specification. The following results were tabulated:

% Agreement with GC/MS

	Specimen	ACE	AMP	AMP500	AMP300	BAR	BUP10	BUP5	BZO500
Γ	Positive	96.1%	95.8%	95.9%	96.1%	97.8%	100%	100%	98%
	Negative	100%	100%	100%	100%	98.1%	100%	100%	100%
	Total	98.1%	98.1%	98.1%	98.1%	98%	100%	100%	99%

Specimen	BZO	BZO200	BZO100	COC	COC200	COC150	COC100	COT
Positive	95.3%	97.4%	95.9%	98.2%	95.7%	96%	98.2%	96.5%
Negative	92.9%	98.2%	98%	98.1%	98.1%	94%	98.1%	98%
Total	93.9%	97.9%	97%	98.2%	97.0%	95%	98.2%	97.2%

Specimen	COT300	COT200	EDDP	EDDP100	ETG	FYL200	FYL10	HMO
Positive	97.9%	97.7%	98.6%	95.8%	100%	96.8%	94.4%	95.9%
Negative	98.1%	97.9%	100%	100%	100%	100%	100%	100%
Total	98%	98%	99.1%	98.1%	100%	98.3%	97.2%	98.0%

Specimen	K2	KET	LSD	6-MAM	MDMA	MDMA500	MET	MET500
Positive	98.9%	98%	100%	96.8%	98.5%	100%	96.8%	96.9%
Negative	100%	98.6%	100%	100%	98.2%	100%	100%	100%
Total	99%	98.3%	100%	98.2%	98.3%	100%	98.3%	98.3%

Specimen	MET300	MOP	MOP200	MOP100	MPD	MQL	MTD	OPI
Positive	96.8%	96.8%	96.1%	96.1%	97.7%	98.4%	96.1%	97.6%
Negative	100%	97.9%	100%	100%	98.4%	98%	100%	98.4%
Total	98.4%	97.3%	98.1%	98.1%	98.1%	98.2%	98.1%	98.1%

Specimen	OPI1000	OXY	OXY100	PCP25	PPX	TCA	THC	THC150
Positive	96.5%	98%	96.1%	97.8%	97.8%	92.1%	96.1 %	98.4%
Negative	96%	97%	100%	100%	100%	100%	100 %	98.3%
Total	96.3%	97%	98.1%	98.9%	99%	96.8%	98.1 %	98.4%

Specimen	THC50	THC25	TRA	TRA100	ZOL
Positive	96.8%	96.8 %	96.6%	98.4%	96.3%
Negative	98.3%	98.3 %	98.2%	100%	98%
Total	97.5%	97.5 %	97.4%	99.1%	97.1%

Analytical Sensitivity The sensitivity of Rapid ResponseTM Multi-Drug Test Panel (Urine) was determined by tested GC/MS confirmed controls to the concentration at negative, -50% cutoff, -25% cutoff, cutoff, +25% cutoff, +50% cutoff and 3 times of cutoff. The results are summarized below:

Drug Conc.	n	A	CE	AN	МР	AMI	2500	AMI	2300	BA	٩R	BU	JP	BU	IP5	BZC	0500
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	19	31	16	34	14	36	20	30	11	39	25	25	21	29	12	38
125% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	BZ	ZO	BZO	200	BZO	100	CC	C	COC	2200	COC	2150	COC	2100	HM	ЛО
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50%	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	17	33	11	39	12	39	11	39	18	32	24	26	23	27	25	25

125%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	K	2	LS	SD	6-M	AM	CC	TC	COT	300	CO	Г200	ED	DDP	EDD	P100
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50%	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	14	36	22	28	25	25	15	35	17	33	13	37	24	26	25	25
125%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	EI	ГG	FYI	.200	FY	L10	K	ET	М	DMA	MDM	1A500	MET	Γ	MET	500
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	25	25	22	28	25	25	16	34	25	25	13	37	23	27	10	40
125% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	MET	[300	M	OP	MOI	P200	MO	P100	M	PD	M	QL	M	ГD	0	PI
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	15	35	18	32	18	32	20	30	22	28	14	36	6	44	23	27
125%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	OPI	1000	02	KΥ	OXY	/100	PO	CP	PF	PX	TC	CA	THO	2200	THC	C150
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	13	37	19	31	19	31	9	41	20	30	9	41	17	33	19	31
125%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	TH	C50	TH	C25	TF	RA	TRA	A100	ZC	DL
(Cut-off)		-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0
50%	50	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0
Cutoff	50	17	33	11	39	15	35	11	39	16	34
125%	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50

Specificity The specificity for the Rapid ResponseTM Multi-Drug Test Panel (Urine) has been tested by adding various drugs, drug metabolites, and other compounds that are likely to be present in drug-free normal human urine. The Rapid ResponseTM Multi-Drug Test Panel (Urine) performance at cutoff point is not affected when pH range of urine specimens is at 3.0 to 8.5 and specific gravity range of urine specimens is at near 1.005 to 1.03. The following compounds were found to produce positive results when tested at levels greater than the concentrations (in ng/ml) listed below, see the form in the final.

Acetaminophen 5000 related	l compounds
Acetaminophen	5,000
Acetophenetidine	7,500
Amphetamine 1000 related	compounds
d-Amphetamine	1,000
1-Amphetamine	>100,000
d-methamphetamine	>100,000

Meperidine	12,500
Mephentermine hemisulfate salt	50,000
Methadone	12,500
D-Methamphetamine	12,500
3,4-Methylenedioxyethylamphetamin	25,000
Nordoxepin hydrochloride	25,000
Phencyclidine	5,000

1-methamphetamine	>100,000
3,4-Methylenedioxyamphetamine	1,250
3,4-Methylenedioxy-methamphetamin	>100,000
3,4-Methylenedioxyethylamphetamine	>100,000
Paramethoxyamphetamine	625
Phentermine	1,250
Tyramine	>100,000
Amphetamine 500 related compound	
d-Amphetamine	500
I-Amphetamine	50,000
3,4-Methylenedioxyamphetamine	625
Phentermine	1,250
Paramethoxyamphetamine	625
Tyramine	>100,000
Amphetamine 300 related compound	
d-Amphetamine	300
1-Amphetamine	50,000
Mephentermine hemisulfate salt	>100,000
3,4-Methylenedioxyamphetamine	625
Phentermine	625
Paramethoxyamphetamine (PMA)	625
Paramethoxymethamphetamine	>100,000
(PMMA)	
Tyramine	>100,000
Barbiturates 300 related compounds	
Secobarbital	300
Allobarbital	1,250
Alphenal	625
Amobarbital	625
Aprobarbital	188
Butabarbital	94
Butalbital	2,500
Butethal	200
Cyclopentobarbital	400
Pentobarbital	1,000
Phenobarbital	300
Buprenorphine 10 related compound	
Buprenorphine	10
	10
	50
Norbuprenorphine	
Norbuprenorphine–3–β–D–Glucuronid	100
Buprenorphine 5 related compounds	-
Buprenorphine	5
Buprenorphine–3–β–D–Glucuronide	5
Buptenorphine 5 p D Glacutonide	-
Norbuprenorphine	25
Norbuprenorphine Norbuprenorphine-3-β-D-Glucuronid	25 50
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compou	25 50 nds
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam	25 50 nds 500
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compou	25 50 nds 500 nds
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam	25 50 nds 500
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compou Oxazepam Benzodiazepines 300 related compou	25 50 nds 500 nds
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam	25 50 nds 500 nds 300
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam	25 50 nds 500 nds 300 125 625
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide	25 50 nds 500 125 625 2500
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam	25 50 nds 500 125 625 2500 63
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam	25 50 nds 500 nds 300 125 625 2500 63 2500
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clorazepate	25 50 nds 500 125 625 2500 63 2500 3330
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clorazepate Desalkflurazepam	25 50 nds 500 nds 300 125 625 2500 63 2500 3330 250
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clorazepate Desalkflurazepam Diazepam	25 50 mds 500 mds 300 125 625 2500 63 2500 3330 250 250 250
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clorazepate Desalkflurazepam Diazepam Estazolam	25 50 mds 500 125 625 2500 63 2500 3330 2500 250 250 250 5000
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clonazepam Clonazepate Desalkflurazepam Diazepam Estazolam Fentanyl	25 50 nds 500 300 125 625 2500 63 2500 2500 2500 2500 250 2500 2500 2500
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clorazepate Desalkflurazepam Diazepam Estazolam Fentanyl Flunitrazepam	25 50 nds 500 nds 300 125 625 2500 63 2500 3330 2500 2500 >100,000 375
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clonazepam Clonazepate Desalkflurazepam Diazepam Estazolam Fentanyl	25 50 nds 500 300 125 625 2500 63 2500 2500 2500 2500 250 2500 2500 2500
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clorazepate Desalkflurazepam Diazepam Estazolam Fentanyl Flunitrazepam	25 50 nds 500 125 625 2500 63 2500 2500 2500 2500 2500 2500 3330 250 250 5000 >100,000 375 >100,000 1250
Norbuprenorphine Norbuprenorphine–3–β–D–Glucuronid Benzodiazepines 500 related compour Oxazepam Benzodiazepines 300 related compour Oxazepam Alprazolam Bromazepam Chlordiazepoxide Clobazam Clonazepam Clorazepate Desalkflurazepam Diazepam Estazolam Fentanyl Flunitrazepam Flurazepam	25 50 nds 300 125 625 2500 63 2500 2500 250 250 250 250 250 250 3330 250 250 250 250 250 250 250 250 250 25

Promazine	8,000
Promethazine	25,000
LSD 50 related compounds	
Lysergic acid diethylamide	50
6-MAM 10 related compounds	
6-Monoacetylmorphine	10
Morphine	15
Ecstasy 500 related compounds	
3,4-Methylenedioxy-methamphetamin	500
d-Amphetamine	>100,000
1-Amphetamine	>100,000
d-methamphetamine	>100,000
1-methamphetamine	>100,000
3.4-Methylenedioxyamphetamine	2,500
3,4-Methylenedioxyethylamphetamin	156
Paramethoxyamphetamine	50,000
Paramethoxymethamphetamine	>100,000
Ecstasy 1000 related compounds	
3,4-Methylenedioxy-methamphetamin	1.000
Methamphetamine 1000 related com	pounds
d-Methamphetamine	1,000
Chloroquine	25,000
emeroquine	
Fenfluramine	12,500
1-Methamphetamine	10,000
Mephentermine hemisulfate salt	31,250
3,4-Methylenedioxyethylamphetamin	50,000
3,4-Methylenedioxy-methamphetamin	
Paramethoxymethamphetamine	625
(-)-Ephedrine	4,000
Methamphetamine 500 related comp	
d-Methamphetamine	500
Chloroquine	
	12,500
Fenfluramine	12,500
1-Methamphetamine Mephentermine hemisulfate salt	3,125
	25,000
MDEA MDMA	12,500
PMMA	1,875
	625
(-)-Ephedrine	2,000
Methamphetamine 300 related comp	
d-Methamphetamine	300
Chloroquine	7,500
Fenfluramine	12,500
1-Methamphetamine	10,000
Mephentermine hemisulfate salt	31,250
MDEA	50,000
MDMA	313
PMMA	625
(-)-Ephedrine	2,000
Morphine 300 related compounds	
Morphine	300
Acetylcodeine	150
Buprenorphine	3,125
Codeine	250
Diacetyl Morphin	250
Dihydrocodeine	586
Ethylmorphine	200
	12,500
Hydrocodone	
Hydrocodone Hydromorphone	12 500
Hydromorphone	12,500
Hydromorphone 6-Monoacetylmorphine	250
Hydromorphone 6-Monoacetylmorphine Morphine-3-glucuronid	250 2,500
Hydromorphone 6-Monoacetylmorphine	250

Midazolam	>100,000	M
Nitrazepam	25000	Ac
Norchlordiazepoxide	250	Βι
Nordiazepam	500	Co
Prazepam	>100,000	Di
Temazepam	63	Di
Triazolam	5000	Eti
Benzodiazepines 200 related comp	ounds	Hy
Oxazepam	200	Hy
Alprazolam	83	6-]
Bromazepam	417	M
Chlordiazepoxide	1,667	Na
Clobazam	42	Th
Clonazepam	1,667	Μ
Clorazepate	2,220	M
Desalkflurazepam	167	Co
Diazepam	167	Di
Estazolam	3,333	Eti
Fentanyl	>100,000	H
	250	Hy
Flunitrazepam	>100,000	6-1
Flurazepam		
Lorazepam	833	M
Lormetazepam	833	0
Medazepam	>100,000	O
Midazolam	>100,000	Pr
Nitrazepam	16,667	Ri
Norchlordiazepoxide	167	Th
Nordiazepam	333	Tr
Prazepam	>100,000	Μ
Temazepam	42	M
Triazolam	3,333	Μ
Benzodiazepines 100 related comp		Μ
Oxazepam	100	Aı
Alprazolam	42	Ca
Bromazepam	208	No
Chlordiazepoxide	833	Ph
Clobazam	21	Tł
Clonazepam	833	Μ
Clorazepate	1,110	Μ
Desalkflurazepam	83	(-)
Diazepam	83	0
Estazolam	1,667	М
Fentanyl	>100,000	Ac
Flunitrazepam	125	Bι
Flurazepam	>100,000	Co
Lorazepam	417	Di
Lormetazepam	417	Di
Medazepam	>100,000	Et
Midazolam	>100,000	H
Nitrazepam	8,333	H
Norchlordiazepoxide	83	M
Nordiazepam	167	6-
*	100.000	
Prazepam Temazepam	>100,000	M Na
remazepani	1,667	
Triazolam	1,007	02
		02
Cocaine 300 related compounds		
Cocaine 300 related compounds Benzoylecgonine	300	
Cocaine 300 related compounds Benzoylecgonine Cocaine	300 1,000	Th
Cocaine 300 related compounds Benzoylecgonine Cocaine Ecgonine	300 1,000 100,000	Th O
Cocaine 300 related compounds Benzoylecgonine Cocaine Ecgonine Ecgonine Methyl Ester	300 1,000	Th O M
Cocaine 300 related compounds Benzoylecgonine Cocaine Ecgonine Ecgonine Methyl Ester Cocaine 200 related compounds	300 1,000 100,000 >100,000	Th Oj M
Cocaine 300 related compounds Benzoylecgonine Cocaine Ecgonine Ecgonine Methyl Ester Cocaine 200 related compounds Benzoylecgonine	300 1,000 100,000 >100,000 200	Ri Th O M O 2
Cocaine 300 related compounds Benzoylecgonine Cocaine Ecgonine Ecgonine Methyl Ester Cocaine 200 related compounds Benzoylecgonine Cocaine	300 1,000 100,000 >100,000 200 125	Th O M O O Hy
Triazolam Cocaine 300 related compounds Benzoylecgonine Cocaine Ecgonine Ecgonine Ecgonine Methyl Ester Cocaine 200 related compounds Benzoylecgonine Cocaine Ecgonine	300 1,000 100,000 >100,000 200	

Morphine	200	Cocaine 150 re
Acetylcodeine	100	Benzoylecgoni
Buprenorphine	2,000	Cocaine
Codeine	170	Ecgonine
Diacetyl Morphin Dihydrocodeine	168 395	Ecgonine Meth Cocaine 100 rel
Ethylmorphine	135	Benzoylecgonin
Hydrocodone	8,350	Cotinine 600 re
Hydromorphone	8,350	(-)-Cotinine
5-Monoacetylmorphine	170	Cotinine 300 re
Morphine-3-glucuronid	1,670	(-)-Cotinine
Nalorphine	16,666	(-)-Nicotine
Thebaine	16,666	Cotinine 200 re
Morphine 100 related compounds		(-)-Cotinine
Morphine	100	(-)-Nicotine
Codeine	100	EDDP 100 rela
Diacetylmorphine (Heroin)	100	EDDP
Ethylmorphine	100	Meperidine
Hydromorphone	500	Methadone
Hydrocodone	500	Norfentanyl
5-Monoacetylmorphine	100	Phencyclidine
Morphine-3-β-d-glucuronide	2,000	Promazine
Oxycodone	20,000	Promethazine
Oxymorphone	20,000	Prothipendyl
Promethazine	>100,000	Prozine
Rifampicine Thebaine	8,400 8,400	EDDP 300 rela
Trimipramine	20,000	Meperidine
MPD 300 related compounds	20,000	Methadone
Methylphenidate	300	Norfentanyl
Methaqualone 300 related compound		Phencyclidine
Methaqualone	300	Promazine
Amitriptyline	50,000	Promethazine
Carbamazepine	20,000	Prothipendyl
Nortriptyline	50,000	Prozine
Phenytoin	40,000	ETG 300 relate
Theophylline	40,000	Ethyl Glucuroni
Methadone 300 related compounds		Fentanyl 10 rel
Methadone	300	Fentanyl
(-)-alpha-methadol	2,000	Norfentanyl
Opiates 2000 related compounds		Fentanyl 200 r
Morphine	2,000	Fentanyl
Acetylcodeine	1,563	Norfentanyl
Buprenorphine	25,000	HMO 250 relat
Codeine	500	Hydromorphone
Diacetylmorphine (Heroin)	1,250	Acetylcodeine
Dihydrocodeine Ethelus an hing	1,563	Thebaine
Ethylmorphine Hydromorphone	800 25,000	Nalorphine Morphine-3-glu
Hydrocodone	50,000	Morphine
Merperidine	>100,000	Hydrocodone
	1.250	Ethylmorphine
Morphine-3-β-d-glucuronide	12,500	Dihydrocodeine
Nalorphine Hydrochloride	>100,000	Diacetyl Morph
Oxycodone	>100,000	Codeine
Oxymorphone	>100,000	Buprenorphine
Rifampicine	>100,000	6-Monoacetylm
Thebaine	50,000	K2 50 related c
Opiates 1000 related compounds		JWH-018-5-Per
Morphine	1,000	JWH-073-4-Bu
		Ketamine 1000
Oxycodone 300 related compounds		Ketamine
	300	Ketamine
Oxycodone Hydrocodone	75,000	Norketamine
Oxycodone 300 related compounds Oxycodone Hydrocodone Hydromorphone Naloxone		

caine 150 related compounds		Oxymorphone
nzoylecgonine	150	Oxycodone 100 related compounds
caine	125	Oxycodone
gonine	10000	Hydrocodone
gonine Methyl Ester	>10000	Hydromorphone
caine 100 related compounds		Naloxone
nzoylecgonine	100	Oxymorphone
tinine 600 related compounds		Phencyclidine 25 related compoun
Cotinine	600	Phencyclidine
tinine 300 related compounds		Hydrocodone
Cotinine	300	Hydromorphone
Nicotine	9,375	4-hydroxyphencyclidine
tinine 200 related compounds		Propoxyphene 300 related compou
Cotinine	200	D-Propoxyphene
Nicotine	6,250	D-Norpropoxyphene
DP 100 related compounds		Tricyclic Antidepressants related of
DP	100	Nortriptyline HCl
peridine	>100,000	Amitriptyline
thadone	>100,000	Clomipramine
rfentanyl	>100,000	Cyclobenzaprine
encyclidine	>100,000	Desipramine
mazine	50,000	Doxepin
methazine	25,000	Imipramine
thipendyl	50,000	Maprotiline
zine	12,500	Nortriptyline
DP 300 related compounds	12,500	Nordoxepin
DP 500 Telated compounds	300	Opipramol
	>100,000	· · · ·
peridine thadone		Promazine
rfentanyl	>100,000	Promethazine
<i>,</i>	>100,000	Prothipendyl
encyclidine	>100,000	Protryptyline
mazine	80,000	Prozine
methazine	75,000	Trimipramine
thipendyl	80,000	Marijuana 200 related compounds
zine	37,500	11-nor-Δ9-THC-9-COOH
G 300 related compounds	200	Marijuana 150 related compounds
yl Glucuronide	300	11-nor-Δ9-THC-9-COOH
ntanyl 10 related compounds	10	11-nor-∆8-THC-9-COOH
ntanyl	10	Δ8-Tetrahydrocannabinol
rfentanyl	50	$\Delta 9$ -Tetrahydrocannabinol
ntanyl 200 related compounds		Cannabinol
ntanyl	200	Marijuana 50 related compounds
rfentanyl	375	11-nor-∆9-THC-9-COOH
1O 250 related compounds		11-nor-∆8-THC-9-COOH
dromorphone	250	11-hydroxy-∆9-Tetrahydrocannabin
etylcodeine	10,000	$\Delta 8$ -Tetrahydrocannabinol
ebaine	25,000	Δ9-Tetrahydrocannabinol
lorphine	12,500	Cannabinol
rphine-3-glucuronid	2,500	Cannabidiol
rphine	5,000	Marijuana 25 related compounds
drocodone	3,100	11-nor-∆9-THC-9-COOH
ylmorphine	5,000	11-nor-∆8-THC-9-COOH
ydrocodeine	25,000	$\Delta 8$ -Tetrahydrocannabinol
cetyl Morphin	10,000	Δ9-Tetrahydrocannabinol
deine	50,000	Cannabinol
prenorphine	10,000	Tramadol 300 related compounds
Ionoacetylmorphine	10,000	Tramadol
50 related compounds		Tramadol 100 related compounds
H-018-5-Pentanoic acid	50	Tramadol
H-073-4-Butanoic acid	50	(+/-)Chlorpheniramine
tamine 1000 related compounds	<u> </u>	Dimenhydrinate
tamine	1,000	Diphenhydramine
rketamine	1,000	Phencyclidine
xtromethorphan	500	(+)-Chlorpheniramine
xtrorphan tartrate	500	Zolpidem 50 related compounds

		_
orphone	750	D
odone 100 related compounds		E
odone	100	
ocodone	25,000	
omorphone	50,000	
one	50,000	(-
orphone	250	(+
cyclidine 25 related compounds		(+
yclidine	25	4.
ocodone	12,500	A
omorphone	6,250	A
roxyphencyclidine	75	A
exyphene 300 related compound	ds	A
poxyphene	300	A
rpropoxyphene	5,000	A
clic Antidepressants related co	mpounds	Α
ptyline HCl	1,000	Α
iptyline	1,500	В
pramine	>100,000	В
benzaprine	12,500	b
ramine	188	С
Din	2,000	Č
amine	2,500	~
otiline	750	I
	3,125	l
ptyline oxepin	5,125	
•		
amol	1,563	
nzine	1,000	
ethazine	6,250	
pendyl	25,000	
ptyline	6,250	
ne	1,250	
pramine	>100,000	
uana 200 related compounds		
r-∆9-ТНС-9-СООН	200	
uana 150 related compounds		
r-∆9-ТНС-9-СООН	150	
r-∆8-THC-9-COOH	90	
etrahydrocannabinol	45,000	
etrahydrocannabinol	45,000	
ıbinol	60,000	
uana 50 related compounds		
г-∆9-ТНС-9-СООН	50	
г-∆8-ТНС-9-СООН	50	
droxy- Δ 9-Tetrahydrocannabinol	50	
etrahydrocannabinol	15,000	
etrahydrocannabinol	15,000	
binol	20,000	
bidiol	>100,000	
juana 25 related compounds	- 100,000	
r-∆9-THC-9-COOH	25	
r-∆8-THC-9-COOH	15	
etrahydrocannabinol	7,500	
etrahydrocannabinol	7,500	
ibinol	10,000	
adol 300 related compounds	200	
adol	300	
adol 100 related compounds		
adol	100	
hlorpheniramine	50,000	
nhydrinate	50,000	
nhydramine	50,000	
yclidine	50,000	
hlorpheniramine	>100,000	
dem 50 related compounds		

D-Norpropoxyphene	31,250 Zolpidem	50	
EDDP	800 Zoipidem	50	
	Non Cross-Reacting Compound	ls	
The following compounds were for	ound not to cross-react when tested a		
(-)-Ephedrine (Except MET)	Chlorpheniramine	Oxalic Acid	
(+)-Naproxen	Creatine	Penicillin-G	
(+/-)-Ephedrine (Except MET)	Dextromethorphan	Pheniramine	
4-Dimethyllaminoantiyrine	Dextrorphan tartrate	Phenothiazine	
Acetaminophen (Except ACE)	Dopamine	L-Phenylephrine	
Acetone	Erythromycin	Procaine	
Albumin	Ethanol	Protonix	
Amitriptyline (Except TCA)	Furosemide	Pseudoephedrine	
Ampicillin	Glucose	Quinidine	
Aspartame	Guaiacol Glyceryl Ether	Ranitidine	
Aspirin	Hemoglobin	Sertraline	
Atropine	Ibuprofen	Tyramine	
Benzocaine	Imipramine (Except TCA)	Vitamin C (Ascorbic Acid)	
Bilirubin	(+/-)-Isoproterenol	Trimeprazine	
b-Phenylethyl-amine	Lidocaine	Venlafaxine	
Caffeine	Methadone (Except MTD)	Ibuprofen	
Chloroquine	N-Methyl-Ephedrine		
		_	
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	LITERATURE REFERENCE ic Drugs and Chemicals in Man. 2r		
 Baselt RC. Disposition of Tox 1982. Hawks RL, Chiang CN, eds. 	ic Drugs and Chemicals in Man. 2r Urine Testing for Drugs of Abuse.	d ed. Davis: Biomedical Publi	
 Baselt RC. Disposition of Tox 1982. Hawks RL, Chiang CN, eds. Human Services, National Insti 	ic Drugs and Chemicals in Man. 2r Urine Testing for Drugs of Abuse. tute on Drug Abuse; 1986.	d ed. Davis: Biomedical Publi Rockville: Department of Hea	
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 Baselt RC. Disposition of Tox 1982. Hawks RL, Chiang CN, eds. Human Services, National Insti 3. Substance Abuse and Menta Workplace Drug Testing Progr. McBay AJ. Drug-analysis tech Suppl): 33B-40B. Gilman AG, Goodman LS, O Therapeutics. 6th ed. New York 	ic Drugs and Chemicals in Man. 2r Urine Testing for Drugs of Abuse. tute on Drug Abuse; 1986. al Health Services Administration. ams. 53 Federal Register; 1988. nologypitfalls and problems of dru, Gilman A, eds. Goodman and Gil Macmillan; 1980. GLOSSARY OF SYMBOLS	d ed. Davis: Biomedical Publi Rockville: Department of Hea Mandatory Guidelines for g testing. Clin Chem. 1987 Oct man's The Pharmacological E	

i	Consult instructions for use	Σ	Tests per kit	EC REP	Authorized Representative
IVD	For in vitro diagnostic use only	2	Use by	2	Do not reuse
2°C - 30°C	Store between 2-30°C	LOT	Lot Number	REF	Catalog #

