

Rapid Response™

Multi-Drug Urine Testing Cup

Instructions for Use

For *in vitro* diagnostic use only. For healthcare professional use.

Intended Use

The Rapid Response™ Multi-Drug Urine Testing Cup are competitive binding, lateral flow immunochromatographic assays for qualitative and simultaneous detection of Amphetamine, Secobarbital, Buprenorphine, Oxazepam, Cocaine, EDDP, Fentanyl, Ecstasy, Propoxyphene, Morphine, Methadone, Phencyclidine, Oxycodone, Norfentanyl, Methamphetamine, Nortriptyline, 6-Monoacetylmorphine, Tramadol and Marijuana in human urine at the cutoff concentrations of:

Drug (Identifier)	Calibrator	Cut-off level
Amphetamine (AMP)	d-Amphetamine	1000 ng/mL or 500 ng/mL or 300 ng/mL
Secobarbital (BAR)	Secobarbital	300 ng/mL
Buprenorphine (BUP)	BUP-3-D-Glucuronide	10 ng/mL
Oxazepam (BZO)	Oxazepam	300 ng/mL
Cocaine (COC)	Benzoylcgonine	300 ng/mL or 150 ng/mL
EDDP	2-Ethylidine-1,5-dimethyl-3,3-diphenylpyrrolidine	300 ng/mL
Fentanyl (FYL)	Fentanyl	1 ng/mL
Ecstasy (MDMA)	3,4-Methylenedioxy-MET	500 ng/mL
Propoxyphene (PPX)	D-Propoxyphene	300 ng/mL
Morphine (MOR)	Morphine	2000 ng/mL or 300 ng/mL
Methadone (MTD)	Methadone	300 ng/mL
Phencyclidine (PCP)	Phencyclidine	25 ng/mL
Oxycodone (OXY)	Oxycodone	100 ng/mL
Norfentanyl (NFYL)	Norfentanyl	5 ng/mL
Methamphetamine (MET)	Methamphetamine	1000 ng/mL or 500 ng/mL or 300 ng/mL
Nortriptyline (TCA)	Nortriptyline	1000 ng/mL
6-Monoacetylmorphine (6-MAM)	6-Monoacetylmorphine	10 ng/mL
Tramadol (TML)	Cis-Tramadol	100 ng/mL
Marijuana (THC)	11-nor- Δ^9 -THC-9-COOH	50 ng/mL or 20 ng/mL

The single or multi-test cup can include any combination of the analytes listed above, with and without on-board adulteration tests. However, only one cut-off concentration can be included per analyte per device. It is for *in vitro* diagnostic use only. The test provides only preliminary test results. A more specific alternative chemical method must be used in order to obtain a confirmed analytical result. GC/MS or LC/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.

Contents of the Kit

- One Test Device
- Adulteration color chart
- Instructions for Use

Not included in package

- Watch, timer, or clock

Precautions

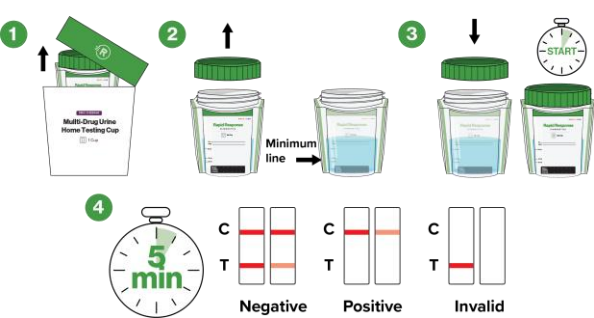
- For *in vitro* diagnostic use only.
- Do not use after the expiration date indicated on the package.
- Do not use the test if the foil pouch or canister is damaged.
- Do not reuse tests.
- Avoid cross-contamination of specimens by using a new specimen collection container for each specimen obtained.
- Read the entire procedure carefully prior to testing.
- Humidity and temperature can adversely affect results.

Storage

- Stored at 36-86°F (2-30°C) until the expiry date printed on the sealed pouch.
- The test must remain in the sealed pouch or closed canister until use.
- DO NOT FREEZE.**
- Keep away from direct sunlight, moisture and heat.

Test Procedure

- Remove the Rapid Response™ Multi-Drug Urine Testing Cup from the sealed pouch and use it within the first hour after opening.
- Collect urine above the Minimum level on the label into the cup.
- Screw the cap onto the cup and immediately start the timer.
- The result should be read at 5 minutes. Do not interpret the result after 10 minutes.
- For the adulteration, compare with the color card. The result should be read at 2 minutes.



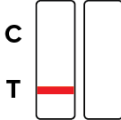
Results Interpretation



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



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: NO line appears in the C – Control region, then the result is Invalid.

NOTE:

- 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.
- Insufficient specimen volume, incorrect operating procedure or expired tests are the most likely reasons for control band failure.

Adulteration Strips

Please refer to the color card provided in this kit for adulteration result interpretation. Read adulteration test pads at 2 minutes.

	No Adulteration	Adulteration
OXI		
S.G.		
pH		
NIT		
GLUT		
CREA		

Limitations

- The device should be only used for the qualitative detection of target drugs.
- This assay provides a preliminary analytical test result only.
- There is a possibility that technical or procedural errors as well as other substances and factors may interfere with the test and cause false results.
- Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. Therefore, please preclude the possibility of urine adulteration prior to testing.
- A positive result indicates the presence of target drugs only, and does not indicate or measure intoxication.
- A negative result does not at any time rule out the presence of target drugs in urine, as they may be present below the minimum detection level of the test.
- By itself, this test will not confirm if someone used a drug of abuse. These types of tests may incorrectly detect the presence of a drug of abuse when the person has consumed certain foods, medicines, diet plan drugs, or nutritional supplements. These are just some examples of the types of things that can cause a false result and there may be others as well. In order to show if someone used a

drug of abuse, you will need to send the urine sample to a laboratory to have a second test, called a confirmation test, performed. The cost of the additional testing is not included in the purchase price of this screening test kit.

Quality Control

- Internal procedural controls are included in the test. A colored band appearing in the control region (C) is considered an internal procedural control, confirming sufficient specimen volume and correct procedural technique.
- External controls are not supplied with this kit. It is recommended that positive and negative controls be tested as a good laboratory practice to confirm the test procedure and to verify proper test performance.
- User should follow federal, state and local guidelines for testing quality control materials. Laboratories should comply with all federal state, and local laws, as well as all guidelines and regulations.

Performance Characteristics

A. Accuracy

The accuracy of the test was confirmed by testing clinical urine specimens in parallel with LC-MS. The results are shown below.

TML (Cut-off=100 ng/mL)

Test		Drug-free	Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	2	19	20
A	Negative	2	18	18	1	0
Operator	Positive	0	0	1	19	20
B	Negative	2	18	19	1	0
Operator	Positive	0	0	0	19	20
C	Negative	2	18	20	1	0

% agreement among positives is 97.5%

% agreement among negatives is 97.5%

FYL (Cut-off=1 ng/mL)

Test		Drug-free	Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	3	19	20
A	Negative	1	19	17	1	0
Operator	Positive	0	0	2	19	20
B	Negative	1	19	18	1	0
Operator	Positive	0	0	2	18	20
C	Negative	1	19	18	2	0

% agreement among positives is 96.7%

% agreement among negatives is 94.2%

NFYL (Cut-off=5 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	2	18	20	
A	Negative	12	8	18	2	0	
Operator	Positive	0	0	3	19	20	
B	Negative	12	8	17	1	0	
Operator	Positive	0	0	2	19	20	
C	Negative	12	8	18	1	0	

% agreement among positives is 96.7%
% agreement among negatives is 94.3%

AMP (Cut-off=1000 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	0	14	25	
A	Negative	10	20	10	1	0	
Operator	Positive	0	0	1	14	25	
B	Negative	10	20	9	1	0	
Operator	Positive	0	0	0	15	25	
C	Negative	10	20	10	0	0	

% agreement among positives is 98.3%
% agreement among negatives is 99.2%

AMP (Cut-off=500 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	0	15	25	
A	Negative	10	20	10	0	0	
Operator	Positive	0	0	1	14	25	
B	Negative	10	20	9	1	0	
Operator	Positive	0	0	1	14	25	
C	Negative	10	20	9	1	0	

% agreement among positives is 98.3%
% agreement among negatives is 98.3%

AMP (Cut-off=300 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	1	24	16	
A	Negative	5	15	19	0	0	
Operator	Positive	0	0	2	24	16	
B	Negative	5	15	18	0	0	
Operator	Positive	0	0	1	23	16	
C	Negative	5	15	19	1	0	

% agreement among positives is 99.2%
% agreement among negatives is 96.7%

COC (Cut-off=300 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	1	15	25	
A	Negative	10	20	9	0	0	
Operator	Positive	0	0	1	14	25	
B	Negative	10	20	9	1	0	
Operator	Positive	0	0	1	14	25	
C	Negative	10	20	9	1	0	

% agreement among positives is 98.3%
% agreement among negatives is 97.5%

COC (Cut-off=150 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	0	14	26	
A	Negative	10	20	10	0	0	
Operator	Positive	0	0	0	14	26	
B	Negative	10	20	10	0	0	
Operator	Positive	0	0	0	14	26	
C	Negative	10	20	10	0	0	

% agreement among positives is 100.0%
% agreement among negatives is 100.0%

MET (Cut-off=1000 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	1	14	25	
A	Negative	10	20	9	1	0	
Operator	Positive	0	0	0	15	25	
B	Negative	10	20	10	0	0	
Operator	Positive	0	0	0	14	25	
C	Negative	10	20	10	1	0	

% agreement among positives is 98.3%
% agreement among negatives is 99.2%

MET (Cut-off=500 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	0	13	26	
A	Negative	10	20	10	1	0	
Operator	Positive	0	0	0	13	26	
B	Negative	10	20	10	1	0	
Operator	Positive	0	0	0	14	26	
C	Negative	10	20	10	0	0	

% agreement among positives is 98.3%
% agreement among negatives is 100.0%

MET (Cut-off=300 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	0	20	20	
A	Negative	4	13	23	0	0	
Operator	Positive	0	0	2	18	20	
B	Negative	4	13	21	2	0	
Operator	Positive	0	0	1	19	20	
C	Negative	4	13	22	1	0	

% agreement among positives is 97.5%
% agreement among negatives is 97.5%

EDDP (Cut-off=300 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	1	15	25	
A	Negative	10	20	9	0	0	
Operator	Positive	0	0	1	14	25	
B	Negative	10	20	9	1	0	
Operator	Positive	0	0	1	14	25	
C	Negative	10	20	9	1	0	

% agreement among positives is 98.3%
% agreement among negatives is 97.5%

TCA (Cut-off=1000 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	0	14	25	
A	Negative	10	20	10	1	0	
Operator	Positive	0	0	0	14	25	
B	Negative	10	20	10	1	0	
Operator	Positive	0	0	1	15	25	
C	Negative	10	20	9	0	0	

% agreement among positives is 98.3%
% agreement among negatives is 99.2%

PPX (Cut-off=300 ng/mL)

Test		Drug-free		Low Negative (<50% the cutoff conc)	Near Cutoff Negative (Between <50% below up to the cutoff conc)	Near Cutoff Positive (Between the cutoff and 50% above cutoff conc)	High Positive (>50% above the cutoff conc)
Operator	Positive	0	0	0	14	25	
A	Negative	10	20	10	1	0	
Operator	Positive	0	0	1	15	25	
B	Negative	10	20	9	0	0	
Operator	Positive	0	0	1	14	25	
C	Negative	10	20	9	1	0	

% agreement among positives is 98.3%
% agreement among negatives is 98.3%

B. Specificity and Cross-reactivity

The minimum concentration required to obtain a positive result of the drug metabolites and other components for the test is listed below.

Tramadol (Cutoff=100ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
Tramadol	100	100
(+/-)Chlorpheniramine	50000	0.2
Dimenhydrinate	50000	0.2
Diphenhydramine	50000	0.2
Phencyclidine	50000	0.2
(+)-Chlorpheniramine	>100000	<0.1
Tramadol-N-Desmethyl	300	33.33
Tramadol-O-Desmethyl	5,000	2
Venlafaxine	>100000	<0.1
o-Desmethyl Venlafaxine	>100000	<0.1

Fentanyl (Cut-off=1 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
(±) β-hydroxythiofentanyl	5	20.00
(±)-3-cis-methyl fentanyl	50	2.00
4-Fluoro-isobutyrylfentanyl	50	2.00
Acetyl fentanyl	5	20.00
Acryl fentanyl	5	20.00
Butyryl fentanyl	25	4.00
Carfentanil	≥10000	≤0.01
Despropionyl fentanyl (4-ANPP)	≥50000	≤0.002
Fentanyl	1	100.00
Furanyl fentanyl	10	10.00
Isobutyryl fentanyl	5	20.00
Ocfentanil	100	1.00
Para-fluoro fentanyl	25	4.00
Para-fluorobutyryl fentanyl	25	4.00
Valeryl fentanyl	50	2.00
ω-1-Hydroxyfentanyl	50000	0.002
Acetyl norfentanyl	>100000	<0.001
Alfentanil	>100000	<0.001
Norcarfentanil	>10000	<0.01
Norfentanyl	>100000	<0.001
Remifentanil	>10000	<0.01
Sufentanil	>10000	<0.01

Norfentanyl (Cut-off=5 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
(±)-β-Hydroxythiofentanyl	80	6.25
4-Fluoro-isobutyryl Fentanyl	250	2.00
9-HydroxyRisperidone	10000	0.05
Acetyl Fentanyl	500	1.00
Acetyl Norfentanyl	50	10.00
Acryl Fentanyl	100	5.00
Alfentanil	>100000	<0.005
Butyryl Fentanyl	500	1.00
(±)-3-cis-methyl fentanyl	200	2.50
trans-d, l-3-methylfentanyl	200	2.50
Fentanyl	500	1.00
Furanyl Fentanyl	1000	0.50
Isobutyryl Fentanyl	75	6.67

Labetalol Hydrochloride	100000	0.005
MT-45	8000	0.06
Norfentanyl	5	100.00
Ocfentanil	5000	0.10
Para-fluorobutyryl fentanyl	100	5.00
Para-fluoro fentanyl	100	5.00
Risperidone	800	0.63
Thienyl Fentnail	100	5.00
Valeryl Fentanyl	500	1.00
Carfentanil	>10000	<0.05
Despropionyl fentanyl (4-ANPP)	>50000	<0.01
Norcarfentanil	>10000	<0.05
Remifentanil	>10000	<0.05
Sufentanil	>10000	<0.05
Trazodone	>10000	<0.05
U-47700	>100000	<0.005
ω-1-Hydroxyfentanyl	>50000	<0.01

Amphetamine (Cut-off=1000 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
D - Amphetamine	1000	100%
L - Amphetamine	20000	5%
D,L - Amphetamine	3000	33%
Phentermine	30000	3.3%
Hydroxyamphetamine	8000	12.5%
Methylenedioxyamphetamine (MDA)	20000	5%
d-Methamphetamine	>100000	<1%
l-Methamphetamine	>100000	<1%
Ephedrine	>100000	<1%
Methylenedioxyethylamphetamine (MDE)	>100000	<1%
3,4-methylenedioxy-methamphetamine (MDMA)	>100000	<1%

Amphetamine (Cut-off=500 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
D - Amphetamine	500	100%
L - Amphetamine	10000	5%
DL - Amphetamine	1200	42%
Phentermine	15000	3.3%
Hydroxyamphetamine	4000	12.5%
Methylenedioxyamphetamine (MDA)	500	100%
d-Methamphetamine	>100000	<0.5%
1-Methamphetamine	>100000	<0.5%
Ephedrine	>100000	<0.5%
Methylenedioxyethylamphetamine (MDE)	>100000	<0.5%
3,4-methylenedioxy-methamphetamine (MDMA)	>100000	<0.5%

Amphetamine (Cutoff=300ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
d-Amphetamine	300	100
l-Amphetamine	50000	0.6
Mephentermine hemisulfate salt	100000	0.3
3,4-Methylenedioxyamphetamine (MDA)	625	48
Phentermine	625	48
Paramethoxyamphetamine (PMA)	625	48

Paramethoxymethamphetamine(PMMA)	100000	0.3
Tyramine	100000	0.3
d,l-Amphetamine	600	50
d,l-Methamphetamine	>100000	<0.3
Pseudoephedrine	>100000	<0.3
Phenylephrine	>100000	<0.3
Phenylethylamine	>100000	<0.3
Hydroxyamphetamine	2000	15
β-Phenylethylamine	>100000	<0.3
p-Hydroxynorephedrine	>100000	<0.3
D,L-Norephedrine	>100000	<0.3
(+/-)3,4-Methylenedioxy-n-ethylamphetamine(MDEA)	>100000	<0.3
d-Methamphetamine	>100000	<0.3
l-Methamphetamine	>100000	<0.3
(+/-)3,4-Methylenedioxy-methamphetamine(MDMA)	>100000	<0.3
Ephedrine hydrochloride	>100000	<0.3
Phenylpropanolamine	>100000	<0.3
Benzphetamine	>100000	<0.3
L-Epinephrine	>100000	<0.3
D,L-Epinephrine	>100000	<0.3

Cocaine (Cut-off=300 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
Benzoyllecgonine	300	100%
Cocaine HCl	750	40%
Cocaethylene	12500	2.4%
Ecgonine	32000	0.9%
Norcocaine	100000	0.3%

Cocaine (Cut-off=150 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
Benzoyllecgonine	150	100%
Cocaine HCl	500	30%
Cocaethylene	7500	2%
Ecgonine	15000	1%
Norcocaine	50000	0.3%

Methamphetamine (Cut-off=1000 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
D(+)-Methamphetamine	1000	100%
(+/-)3,4-Methylenedioxy-n-ethylamphetamine (MDEA)	10000	10%
D/L-Methamphetamine	1000	100%
p-Hydroxymethamphetamine	10000	10%
D-Amphetamine	>100000	<1%
L-Amphetamine	>100000	<1%
Chloroquine	50000	2%
(+/-)-Ephedrine	4000	25%
L-Methamphetamine	10000	10%
(+/-)3,4-Methylenedioxyamphetamine (MDA)	>100000	<1%
(+/-)3,4-methylenedioxy-methamphetamine(MDMA)	500	200%
β-Phenylethylamine	7500	13.3%
Trimethobenzamide	20000	5%

Methamphetamine (Cut-off=500 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
D(+)-Methamphetamine	500	100%
(+/-)3,4-Methylenedioxy-n-ethylamphetamine (MDEA)	5000	10%
D/L-Methamphetamine	500	100%
p-Hydroxymethamphetamine	5000	10%
D-Amphetamine	>100000	<0.5%
L-Amphetamine	>100000	<0.5%
Chloroquine	40000	1.25%
(+/-)-Ephedrine	2000	25%
L-Methamphetamine	5000	10%
(+/-)3,4-Methylenedioxyamphetamine (MDA)	>100000	<0.5%
(+/-)3,4-methylenedioxy-methamphetamine(MDMA)	5000	10%
β-Phenylethylamine	4000	12.5%
Trimethobenzamide	10000	5%

Methamphetamine (Cut-off=300 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
d-Methamphetamine	300	100
Chloroquine	7,500	4
(-)-Ephedrine	2,000	15
Fenfluramine	12,500	2.4
l-Methamphetamine	1,000	30
Mephentermine hemisulfate salt	31,250	0.96
MDEA	50,000	0.6
MDMA	313	95.85
PMMA	625	48
d,l-Methamphetamine	1250	24
p-Hydroxymethamphetamine	4000	7.5%
(+/-)-Ephedrine	2000	15%
d-Amphetamine	>100000	<0.3
d,l-Amphetamine	>100000	<0.3
l-Amphetamine	>100000	<0.3
Phenylephrine	>100000	<0.3
Phenylethylamine	>100000	<0.3
Pseudoephedrine	>100000	<0.3
d,l-(MDA)	>100000	<0.3
Phentermine	>100000	<0.3
Methoxyphenamine hydrochloride	2500	12
Trimethobenzamide	>100000	<0.3
Procaine hydrochloride	>100000	<0.3

Barbiturates (Cut-off=300 ng/mL)	Result Positive at (ng/mL)	% Cross-Reactivity
Secobarbital	300	100%
Amobarbital	1000	30%
Alphenal	62.5	480%
Aprobarbital	250	120%
Butabarbital	100	300%
Butethal	500	60%
Butalbital	5000	6%
Cyclopentobarbital	500	60%
Pentobarbital	200	150%

Phenobarbital	300	100%
Buprenorphine (Cut-off=10 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
Buprenorphine	10	100%
Buprenorphine -3-D-Glucuronide	10	100%
Norbuprenorphine	50	20%
Norbuprenorphine-3-D- Glucuronide	100	10%
Morphine	>100000	<0.01%
Oxymorphone	>100000	<0.01%
Hydromorphone	>100000	<0.01%

Oxazepam (Cut-off=300 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
Oxazepam	300	100%
Alprazolam	150	200%
a-Hydroxyalprazolam	1000	30%
Bromazepam	1000	30%
Chlordiazepoxide	63	476.2%
Clonazepam HCl	2500	12%
Clobazam	75	400%
Clorazepate dipotassium	100	300%
Desalkylflurazepam	500	60%
Diazepam	500	60%
Estazolam	500	60%
Flunitrazepam	>50000	<0.6%
D,L-Lorazepam	10000	3%
Midazolam	10000	3%
Nitrazepam	75	400%
Norchlordiazepoxide	62.5	480%
Nordiazepam	125	240%
Temazepam	75	400%
Triazolam	1000	30%

EDDP (Cut-off=300 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
EDDP(2-ethylidene-1,5-dimethyl- 3,3- diphenylpyrrolidine)	300	100%
EMDP (2-Ethyl-5-methyl-3,3- diphenylpyrroline)	>100000	<0.3%
Disopyramide	75	400%
Methadone	>100000	<0.3%
LAAM (Levo-alpha- acetylmethadol) HCl	>100000	<0.3%
Alpha Methadol	>100000	<0.3%
Doxylamine	>100000	<0.3%

Ecstasy (Cut-off=500 ng/mL)	Result Positive at(ng/ml)	% Cross- Reactivity
Methylenedioxyamphetammine (MDMA)	500	100%
3,4-Methylenedioxyamphetamine (MDA)	5000	10%
3,4-Methylenedioxyethylamphetamine (MDEA)	300	166.7%

d-methamphetamine	>50000	<1%
d-amphetamine	>50000	<1%
l-amphetamine	>50000	<1%
l-methamphetamine	>50000	<1%

Morphine (Cut-off= 2000 ng/mL) (Cut-off=1000 ng/mL)	Result Positive at(ng/ml)	%Cross- Reactivity
Morphine	2000	100%
Acetylmorphine	2500	80%
Codeine	1000	200%
Ethyl Morphine	250	800%
Heroin	5000	40%
Hydromorphone	2500	80%
Hydrocodone	5000	40%
Thebaine	13000	15.4%
Morphine-3- β-glucuronide	Negative at 200000	<1%
Oxycodone	Negative at 400000	<0.5%
Oxymorphone	Negative at 400000	<0.5%
Procaine	Negative at 400000	<0.5%
Levorphanol	Negative at 400000	<0.5%

Morphine (Cut-off=300 ng/mL)	Result Positive at(ng/ml)	% Cross- Reactivity
Morphine	300	100%
Codeine	300	100%
Ethylmorphine	310	96.8%
Hydrocodone	25000	1.2%
Hydromorphone	10000	3%
Levorphanol	> 100000	0.3%
6-Acetylmorphine	250	120%
Morphine -3-β-D-glucuronide	10000	3%
Normorphine	100000	0.3%
Oxycodone	>10000	<3%
Oxymorphone	>10000	<3%
Procaine	>10000	<3%
Thebaine	>10000	<3%
Heroin	500	60%

Methadone (Cut-off=300 ng/mL)	Result Positive at(ng/ml)	% Cross- Reactivity
Methadone	300	100%
Doxylamine	5000	6%
LAAM HCl	10000	3%
Alpha Methadol	2000	15%
EDDP	>100000	<0.3%
EMDP	>100000	<0.3%

Oxycodone (Cut-off=100 ng/mL)	Result Positive at(ng/ml)	% Cross- Reactivity
Oxycodone	100	100%
Dihydrocodeine	>100000	<0.1%
Codeine	>100000	<0.1%

Hydromorphone	>100000	<0.1%
Morphine	>100000	<0.1%
Buprenorphine	>100000	<0.1%
Ethylmorphine	>100000	<0.1%
Oxymorphone	250	40%
Hydrocodone	3125	3.2%

Phencyclidine (Cut-off= 25 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
Phencyclidine	25	100%
4-Hydroxyphencyclidine	75	33.3%

Propoxyphene (Cut-off=300 ng/mL)	Result Positive at(ng/ml)	% Cross- Reactivity
d-Propoxyphene	300	100%
Norpropoxyphene	333	90.1%

Nortriptyline (Cut-off=1000 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
Nortriptyline	1000	100%
Amitriptyline	750	133.3%
Clomipramine	10000	10%
Desipramine	200	500%
Doxepin	1250	80%
Imipramine	625	160%
Maprotiline	2000	50%
Nordoxepin	1000	100%
Promazine	1500	66.7%
Promethazine	25000	4%
Trimipramine	3000	33.3%
Cyclobenzaprine Hydrochloride	5000	20%
Norclomipramine	3000	33.3%

Marijuana (Cut-off=50 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
11-Nor-Δ9-Tetrahydrocannabinol-9- COOH	50	100%
11-Hydroxy-Δ9- Tetrahydrocannabinol	50	100%
11-Nor-Δ8-Tetrahydrocannabinol-9- COOH	50	100%
Cannabinol	20000	0.25%
Δ8-Tetrahydrocannabinol	15000	0.33%
Δ9-Tetrahydrocannabinol	15000	0.33%
Cannabidiol	>100000	<0.05%
11-Nor-Δ9-THC-carboxy glucuronide	75	66.7%
(-)-11-nor-9-carboxy-Δ 9-THC	50	100%

Marijuana (Cut-off= 20 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
11-nor-D9-THC-9 COOH	20	100%
11-nor-D8-THC-9 COOH	20	100%
Δ8-Tetrahydrocannabinol	>10000	<0.25%
Δ9-Tetrahydrocannabinol	>10000	<0.25%
Cannabinol	>10000	<0.25%

6-monoacetylmorphine (Cut-off=10 ng/mL)	Result Positive at (ng/mL)	% Cross- Reactivity
6-monoacetylMorphine	10	100%
Acetylcodeine	>10,000	<0.1%
Buprenorphine	>10,000	<0.1%
Codeine	>10,000	<0.1%
Diacetylmorphine	1,000	1%
Dihydrocodeine	>10,000	<0.1%
Ethylmorphine	>10,000	<0.1%
Hydrocodone	>10,000	<0.1%
Hydromorphone	5,000	0.2%
Morphine	10,000	0.1%
Morphine-3-glucuronide	>10,000	<0.1%
Nalorphine	5,000	0.2%
Thebaine	>20,000	<0.05%
Dextromethorphan	>100,000	<0.01%
Heroin	100,000	0.01%
Imipramine	>100,000	<0.01%
LAAM (Levacetylmethadol)	>100,000	<0.01%
Levorphanol	>100,000	<0.01%
Meperidine	>100,000	<0.01%
Methadone	>100,000	<0.01%
Mitragynine (kratom)	>20,000	<0.05%
Morphine 6-D-glucuronide	>100,000	<0.01%
Naloxone	>100,000	<0.01%
Naltrexone	>100,000	<0.01%
Naproxen	>100,000	<0.01%
Norbuprenorphine	>10,000	<0.1%
Norbuprenorphine glucuronide	>100,000	<0.01%
Norcodeine	>100,000	<0.01%
Norhydrocodone	>100,000	<0.01%
Normorphine	>100,000	<0.01%
Noroxycodone	>100,000	<0.01%
Noroxymorphone	>100,000	<0.01%
Norpropoxyphene	>100,000	<0.01%
Oxycodone	>100,000	<0.01%
Oxymorphone	>100,000	<0.01%
Oxymorphone-3β-D-glucuronide	>100,000	<0.01%
Tapentadol HCl	>100,000	<0.01%
Tramadol	>100,000	<0.01%

C. Precision

Result Drug Conc. % of cutoff	FYL (Cut-off=1 ng/mL)			NFYL (Cut-off=5 ng/mL)		
	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+
-75%	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+
-50%	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+
-25%	49-/1+	50-/0+	49-/1+	49-/1+	49-/1+	50-/0+
cutoff	29+/21-	27+/23-	29+/21-	29+/21-	27+/23-	28+/22-
+25%	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-
+50%	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-
+75%	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-
+100%	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-	50+/0-

Result Drug Conc. % of cutoff	AMP (Cut-off=500 ng/mL)			AMP (Cut-off=300 ng/mL)		
	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+
-75%	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+
-50%	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+
-25%	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+	50-/0+
cutoff	43+/7-	41+/9-	42+/8-	30+/20-	32+/18-	34+/16-

+25%	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-
+50%	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-
+75%	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-
+100%	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-	50 +/-

Result	AMP (Cut-off=1000 ng/mL)			MET (Cut-off=1000 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	37 +/-13-	39 +/-11-	39 +/-11-	38 +/-12-	41 +/-9-	39 +/-11-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

Result	MET (Cut-off=500 ng/mL)			MET (Cut-off=300 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	41 +/-9-	39 +/-11-	37 +/-13-	35 +/-15-	33 +/-17-	36 +/-14-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

Result	BUP (Cut-off=10 ng/mL)			BZO (Cut-off=300 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	48 +/-2-	48 +/-2-	47 +/-3-	42 +/-8-	41 +/-9-	39 +/-11-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

Result	EDDP (Cut-off=300 ng/mL)			MDMA (Cut-off=500 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	40 +/-10-	41 +/-9-	41 +/-9-	41 +/-9-	39 +/-11-	38 +/-12-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

Result	MOR (Cut-off=2000 ng/mL)			MOR (Cut-off=300 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	39 +/-11-	40 +/-10-	41 +/-9-	42 +/-8-	41 +/-9-	41 +/-9-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

Result	OXY (Cut-off=100 ng/mL)			PCP (Cut-off=25 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+

-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	47 +/-3-	48 +/-2-	48 +/-2-	39 +/-11-	40 +/-10-	40 +/-10-
+25%	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-
+50%	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-
+75%	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-
+100%	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-	50/-0-

Result	PPX (Cut-off=300 ng/mL)			TCA (Cut-off=1000 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	41 +/-9-	42 +/-8-	41 +/-9-	41 +/-9-	42 +/-8-	42 +/-8-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

Result	THC (Cut-off=50 ng/mL)			THC (Cut-off=20 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
-75%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
-50%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
-25%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
cutoff	38 +/-12-	38 +/-12-	40 +/-10-	23 +/-7-	24 +/-6-	24 +/-6-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-

Result	TML (Cut-off=100 ng/mL)			BAR (Cut-off=300 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	36 +/-14-	34 +/-16-	32 +/-18-	48 +/-2-	48 +/-2-	49 +/-1-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

Result	MTD (Cut-off=300 ng/mL)			6-MAM (Cut-off=10 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
-75%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
-50%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
-25%	50/-0+	50/-0+	50/-0+	30/-0+	30/-0+	30/-0+
cutoff	47 +/-3-	48 +/-2-	48 +/-2-	24 +/-6-	23 +/-7-	23 +/-7-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	30 +/-0-	30 +/-0-	30 +/-0-

Result	COC (Cut-off=300 ng/mL)			COC (Cut-off=150 ng/mL)		
Drug Conc. % of cutoff	Lot 1	Lot 2	Lot 3	Lot 1	Lot 2	Lot 3
-100%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-75%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-50%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
-25%	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+	50/-0+
cutoff	38 +/-12-	41 +/-9-	37 +/-13-	39 +/-11-	43 +/-7-	40 +/-10-
+25%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+50%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+75%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-
+100%	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-	50 +/-0-

D. Effect of Urine Density and pH

Urine samples of different urine density were tested. The results showed that varying urine density did not affect the test results.

Urine samples of different pH from acidic to basic were tested. The results showed that varying ranges of pH did not affect the test results.

E. Interference

The compounds listed below showed no interference at a concentration of 100 ug/mL or specified concentrations.

11-nor-9 carboxy THC (except for THC)	Nicotinic Acid
3-Hydroxytyramine	Nifedipine
4-Bromo-2,5-Dimethoxyphenethylamine	Norethindrone
7-Aminoflunitrazepam	Norpropoxyphene (except for PPX)
7-Aminonitrazepam	Norpseudoephedrine
Acetaminophen	Nortriptyline (except for TCA)
Acetone (1000 mg/dL)	Noscapine
Acetophenetidin	Octopamine
Acetylsalicylic Acid (500 µg/mL)	O-Hydroxyhippuric acid
Albumin (100 mg/dL)	Oxalic Acid (100 mg/dL)
Albuterol	Oxazepam (except for BZO)
Aminopyrine	Oxolinic acid
Amitriptyline (except for TCA)	Oxymetazoline
Amlodipine besylate	Papaverine
Amobarbital (except for BAR)	Penicillin-G
Amoxicillin	Pentazocine
Ampicillin	Perphenazine
Apomorphine	Phencyclidine (except for PCP/TML)
Ascorbic Acid	Phenelzine
Aspartame	Phenobarbital (except for BAR)
Aspirin	Phentermine (except for AMP)
Atropine	Phenylethylamine (except for MET)
Baclofen	Prednisone
Benzilic acid	Promazine (except for TCA/EDDP)
Benzocaine	Promethazine (except for BZO/EDDP/TCA)
	Propoxyphene (except for PPX)
Benzoic Acid	Propranolol
Benzoyllecgonine (except for COC)	Pseudoephedrine
Benzylpiperiazine	Pyridoxine
Bilirubin	Pyrimamine
Boric Acid (1%)	Pyrogallol
Bupropion	Quinidine
Caffeine (500 µg/mL)	Quinine
Carbamazepine	Quinolinic Acid
Carisoprodol	Ranitidine
Cetirizine	r-Globulin
Chloral hydrate	Riboflavin
Chloramphenicol	Salicylic Acid
Chlordiazepoxide (except for BZO)	Secobarbital (except for BAR)
Chlorothiazide	Serotonin(5-Hydroxytyramine)
Chlorpheniramine	Sodium Azide
Chlorpromazine	Sufentanil Citrate
Cholesterol	Sulfamethazine
Clofibrate	Sulindac
Clomipramine (except for TCA)	Tetracycline
Clonidine	Tetrahydrocortisone 3-acetate
Cortisone	Tetrahydrocortisone3-(β-
Cotinine	

	Dglucuroneide)
Creatine Hydrate	Tetrahydrozoline
Creatinine	Thiamine
Cyclobenzaprine (except for TCA)	Thioridazine
Cyclodextrin-r	Triamterene
Cyproheptadine	Trifluoperazine
d,l-Isoproterenol	Trifluoromethylphenyl- piperazine
Demoxepam	Trimethoprim
Deoxycorticosterone	Tryptamine
Desipramine (except for TCA)	Tyramine
Dextromethorphan	Urea (2000 mg/dL)
Diclofenac	Uric Acid
Diflunisal	Valproic acid (250 µg/mL)
Digoxin	Venlafaxine
Dimethyl-aminoantipyrine	Verapamil
Diphenhydramine (except for TML)	Zolpidem
Diphenylhydantoin	Zolpidem Tartrate
DL-Tryptophan	Zomepirac
DL-Tyrosine	β-Estradiol
Dopamine	β-Hydroxybutyric Acid
Doxepin (except for TCA)	Alpha Methadol (except for MTD)
Ecgonine methyl ester	Cannabidiol
Ephedrine (except for MET)	Carfentanil (except for FYL/NFYL)
Erythromycin	Chloroquine (except for MET)
Estradiol	Disopyramide (except for EDDP)
Estrone	Doxylamine (except for MTD)
Ethanol (1%)	Procaine
Fenfluramine (except for MET)	LAAM HCl (except for MTD)
Fenofibrate	Trimethobenzamide (except for MET)
Fenoprofen	Phenylpropanolamine
Fluphenazine	L-phenylephrine
Fotemustine	THC (except for THC)
Furosemide	Theophylline
Galactose	Rifampicin
Gamma Globulin (500 mg/dL)	Magnesium
Gemfibrozil	Desloratadine
Gentisic acid	Zaleplon
Glucose (3000 mq/dL)	Mifepristone
Guaiacolglyceril ether	D,L-Epinephrine
Hemoglobin	L-Epinephrine
Hexobarbital	Levonorgestrel
Hydralazine	Vitamin B2
Hydrochlorothiazide	Delorazepam (except for BZO)
Hydrocortisone	Levothyroxine Sodium
Hydroxytyramine	Quetiapine
Ibuprofen	Telmisartan
I-Cotinine	Loratadine
I-Erythromycin	Sertraline
Imipramine (except for TCA)	Pregablin
Isoproterenol	Sildenafil Citrate
Isosuprine	Gabapentin
Ketamine	Levofloxacin Hydrochloride
Ketoprofen	Simvastatin
Labeltal	Trazodone Hydrochloride
Lamotrigine	Fluoxetine Hydrochloride
Lidocaine	Paliperidone
Lisinopril	Esomeprazole Magnesium
Loperamide	Penicillin V Potassium
Loratadine	Gatifloxacin
Lorazepam (except for BZO)	Oxalinic acid
LSD	Duloxetine

L-thyroxine	Omeprazole
Maprotiline (except for TCA)	Aripiprazole
Meperidine	Aminophylline
Meprobamate	Acyclovir
Metformin	7-Aminoclonazepam
Methapyrilene	Atomoxetine
Methaqualone	Atorvastatin Calcium
Methoxyphenamine (except for AMP/MET)	Azithromycin
Methylphenidate	Benzphetamine
Metoprolol	Cefradine
Metronidazole (300 µg/mL)	Cephalexin
N-Acetylprocainamide	Ciprofloxacin Hydrochloride
NaCl (40000 µg/mL)	Citalopram
Nalidixic Acid	Clarithromycin
Naloxone (except for OXY)	Clozapine
Naltrexone	Conjugated Estrogens
Naproxen	Nitroglycerin
N-desmethyl Tapentadol	Olanzapine
Niacinamide	Captopril
Nicotine	D,L-Propanolol
Pentazocaine	Chloralhydrate
Ethyl-p-aminobenzoate	Deoxycorticosterone
4-Acetamidophenol	Tolbutamide
Phenytoin	Iproniazid
Prednisolone	Loxapine succinate

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