DrugCheck® NxStep OnSite Drug Test

Royal Medical Supplies Order Code: **60601-6**

For in vitro diagnostic use and for professional testing use only

The ***DrugCheck® NxStep OnSite Drug Test*** is an immunochromatographic assay for the qualitative detection of Amphetamine, Benzodiazepine, Cocaine, Methamphetamine, Opiates, and THC in human urine at a cutoff concentration indicated in the table below.

The test may yield preliminary positive results when prescription drugs are ingested at prescribed doses. It is not intended to distinguish between prescription use and abuse of any drug. There are no uniformly recognised cutoff concentration levels for any drug in urine. The test provides only preliminary test results. A more specific alternative 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 exercised with any drug of abuse test result, particularly when the preliminary result is positive.

For in vitro diagnostic use and for professional testing use only

WHAT IS THE DRUGCHECK® NXSTEP ONSITE DRUG TEST?

The ***DrugCheck® NxStep OnSite Drug Test*** is a rapid test for qualitative detection of Amphetamine, Benzodiazepine, Cocaine, Methamphetamine, Opiates, and THC in human urine. The ***DrugCheck® NxStep OnSite Drug Test*** yields a positive result when drug and/or its metabolite in urine is at or exceeds its cutoff concentration.

WHAT IS THE CUT-OFF VALUE?

Drug Tests	Drug (Identifier)	Cutoff Level
Amphetamine (AMP)	D-Amphetamine	300 ng/mL
Benzodiazepine (BZO)	Oxazepam	200 ng/mL
Cocaine COC)	Benzoylecgonine	300 ng/mL
Methamphetamine (MET)	D-Methamphetamine	300 ng/mL
Opiates (OPI)	Morphine	300 ng/mL
THC (Marijuana) (THC)	11-nor-Δ^9-THC-9-COOH	50 ng/mL
+ 6 Adulterants		

PRINCIPLE

The ***DrugCheck® NxStep OnSite Drug Test*** is an immunoassay. During testing, a urine specimen migrates upward on the test strip. A drug-positive urine specimen will not generate a coloured line in the specific test line region of the strip, while a drug-negative urine specimen will generate a line in the test line region. A coloured line will always appear at the control line region, indicating that proper volume of specimen has been added.

The test contains a membrane strip coated with drug-protein conjugates (purified bovine albumin) on the test line, a goat polyclonal antibody against gold-protein conjugate at the control line, and a dye pad which contains colloidal gold particles coated with mouse monoclonal antibody specific to individual drug on the list indicated in the table above.

ALCOHOL TEST PRINCIPAL

The Urine Alcohol Test Strip is a chemical assay based on an alcohol-sensitive enzymatic reaction. Alcohol, if present in the specimen, reacts with chemicals on the reaction pad and causes a color change.

The reaction pad employs a solid-phase chemistry system which uses a highly specific enzyme reaction. On contact with specimens of alcohol, the reaction pad will rapidly change colours depending on the concentration of alcohol present. This colour change is proportional to the concentration of alcohol in the specimen. By comparing with the colour blocks on the colour chart supplied, an approximate alcohol concentration can be determined

WARNINGS AND PRECAUTIONS

1. For in vitro diagnostic use and for professional testing use only.
2. For external use only.
3. For single use. Discard after first use.
4. Do not use the test if the pouch is punctured or not well sealed.
5. Do not use after expiration date.
6. Keep out of the reach of children.
7. The used test cup and urine specimen should be discarded according to federal, state and local regulations.

CONTENT OF THE PACKAGE

Included in package:

- User Instruction

- Test Cup (inside foil pouch)

Not included in package:

- Watch, Timer or Clock

STORAGE AND STABILITY

Store as packaged in the sealed pouch at 4°C - 30°C. The test is stable through the expiration date printed on the sealed pouch. The test cup must remain in the sealed pouch until use. Keep away from direct sunlight, moisture and heat. DO NOT FREEZE. Do not use beyond the expiration date.

WHEN TO COLLECT URINE FOR THE TEST?

Urine from any time of the day can be used. The minimum detection time varies for different drugs.

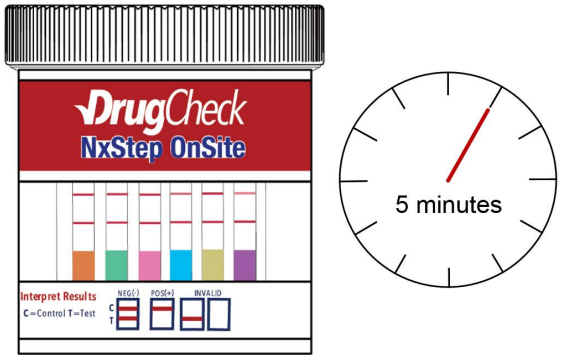
HOW TO COLLECT URINE?

1. When you are ready to begin, remove the test cup from the sealed foil pouch. Peel back and remove the label from the test cup to show the drug test strips. Notice the colored tape on each strip correlates to the name of the drug you are testing for.
2. Remove the cap from the test cup. Fill the test cup with a minimum of 30 mL (see the minimum line mark) fresh urine sample. Do not over-fill.
3. When finished, recap the test cup (be sure to tighten firmly) and place the test cup on a flat surface. Be sure **NOT** to tilt or flip it over.

HOW TO DO THE TEST?

After filling the test cup with a fresh urine sample, wait for 5 minutes (start timing immediately after sample is collected) and read the results. **DO NOT** read results after 5 minutes.

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



READING THE RESULTS

Preliminary Positive (+)

If a line appears in the C - Control area, but NO line appears in the T - Test area, then it indicates a Preliminary Positive result for the corresponding drug.

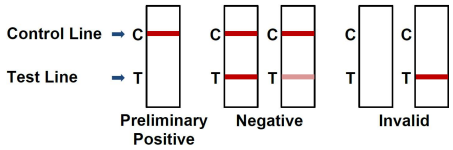
Negative (-)

If a line appears in both the C - Control and T - Test area, then it indicates a Negative result for the corresponding drug regardless of how dark or how light the line may appear.

Invalid

If at 5 minutes, NO line appears in the C – Control area, then the results are Invalid. In such case, retest with a new test cup.

Note: Each test strip needs to be looked at individually. Each line may vary in color and darkness or the rate at which the line appears. (DO NOT compare lines within the same test strip or between different test strips).



A positive test result does not always mean a person took illegal drugs and a negative test result does not always mean a person did not take illegal drugs. There are a number of factors that influence the reliability of drug tests. Certain drugs of abuse tests are more accurate than others.

IMPORTANT: The result you obtained is called preliminary for a reason. The sample must be tested by a laboratory to determine if a drug of abuse is actually present.

ALCOHOL INTERPRETATION OF RESULTS

Negative: No color change appears on the reaction pad. The color should match the color block on the color chart corresponding to a negative (-) result. This indicates that alcohol has not been detected.

Positive: A color change appears on the reaction pad. The color on the reaction pad varying from a light blue to a dark blue, falling on or between the corresponding color blocks on the color chart. This indicates that alcohol has been detected.

Invalid: The outer edges of the reaction pad produce a slight color but the majority of the reaction pad remains colorless. Repeat the test with a new test strip, ensuring complete saturation of the reaction pad with the specimen. If the problem persists, do not continue the test and contact your local distributor.

WHAT IS A FALSE POSITIVE TEST?

The definition of a false positive test would be an instance where the test result from the ***DrugCheck® NxStep OnSite Drug Test*** is positive, even though the initial target drug is not present in the sample. The most common causes of a false positive test are cross reactants. Certain foods and medicines, diet plan drugs and nutritional supplements may also cause a false positive test result with this product.

WHAT IS A FALSE NEGATIVE TEST?

The definition of a false negative test is that the initial target drug is present but isn't detected by the ***DrugCheck® NxStep OnSite Drug Test***. If the sample is diluted, or if the sample is tainted or contaminated with a substance this could cause false negative results.

TEST LIMITATIONS

1. The ***DrugCheck® NxStep OnSite Drug Test*** 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.
2. There is a possibility that interfering substances in the urine specimen may cause erroneous results.
3. Substances, such as bleach and/or alum, in urine specimens may produce erroneous results.
4. A positive result does not indicate intoxication, the concentration of drug in the urine, or the route of drug administration.
5. A negative result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cutoff level of the test.
6. Test does not distinguish between drugs of abuse and certain medications.
7. A positive test result may be obtained from certain foods or food supplements.

ALCOHOL LIMITATIONS

1. The Urine Alcohol Test Strip provides only a preliminary result for the detection of alcohol concentration in human urine. A secondary analytical method must be used to obtain a confirmed result. Gas chromatography (GC) is the preferred confirmatory method.
2. Interpretation of visual results is dependent on several factors: the variability of color perception, the presence or absence of inhibitory factors, and the lighting conditions when the strip is read. Caution should be taken when interpreting test results due to the subjective nature of the test.
3. The Urine Alcohol Test Strip should not be used to determine the presence of alcohol in beverages, in undiluted alcohol, or in other liquid solutions.
4. Alcohol concentration in the human body slowly increases after the alcohol ingestion. Generally, the maximum alcohol concentration in human urine, appears in the range from 30 minutes to 60 minutes after the last alcohol ingestion. After the maximum appearance, the alcohol concentration in the human body reduces. How long the alcohol concentration takes to reduce to zero depends on how much alcohol has been ingested.
5. The Urine Alcohol Test Strip is highly sensitive to the presence of alcohol. Alcohol vapors in the air are sometimes detected by the test strip. Alcohol vapors are present in many institutions and homes. Alcohol is a component in many household products such as disinfectant, deodorizers, perfumes, and glass cleaners. If the presence of alcohol vapors is suspected, the test should be performed in an area known to be free of vapors.
6. Ingestion or general use of over-the-counter medications and products containing alcohol such as cold medicines, breath sprays and mouthwashes can produce positive results. Wait at least 20 minutes after ingesting any such products before using the test strip.

QUALITY CONTROL

If you work in a laboratory you should perform quality control testing and you should read this section.

A procedural control is included in the test. A colour 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. Quality control testing should be done with each new lot and each new shipment. It should be done every thirty days to check storage. Please contact our Technical Support at 1-507-526-3951 for controls that work with the test cup.

PERFORMANCE CHARACTERISTICS

Eighty clinical urine specimens were analyzed by GC/MS and by the ***DrugCheck® NxStep Onsite Drug Test***. Each test was read by three viewers. Samples were divided by concentration into five categories: drug-free, less than half the cutoff, near cutoff negative, near cutoff positive, and high positive. Results were as follows:

Accuracy – 6-Acetylmorphine (6-ACM)

	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	0	20
Near Cut-off Positive Samples [between cut-off and 150% of cut-off]	19	1
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	98%	>99%

Overall Agreement with GC/MS is 99%.

Accuracy – Amphetamine 1000

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	12	26
Negative	10	10	19	2	0

% agreement among positives is 95%
% agreement among negatives is 97.5%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Amphetamine 1000:
The average positive agreement is 96.7%.
The average negative agreement is 98.3%.

Accuracy – Amphetamine 500

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	14	26
Negative	10	10	19	0	0

% agreement among positives is 100%
% agreement among negatives is 97.5%

From the results of the above tables, the total results are shown as below for Amphetamine 500:
The average positive agreement is 98.3%.
The average negative agreement is 98.3%.

Accuracy – Amphetamine 300

Analyte	Positive	Negative
Negative Samples	0	42
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	1	6
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	3	0
Positive Samples [>150% of cut-off]	40	0
Agreement with GC/MS	>99%	98%

Overall Agreement with GC/MS is 99%.

Accuracy - Barbiturates

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

From the results of the above tables, the total results are shown as below for Barbiturates:
The average positive agreement is 97.5%.
The average negative agreement is 99.2%.

Accuracy – Benzodiazepine 300

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	14	25
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	14	25
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	25
Negative	10	10	20	2	0

% agreement among positives is 95%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Benzodiazepine:
The average positive agreement is 96.7%.
The average negative agreement is 100%.

Accuracy – Benzodiazepine 200

Analyte	Positive	Negative
Negative Samples	0	5
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	0	28
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	27	2
Positive Samples [>150% of cut-off]	18	0
Agreement with GC/MS	96%	>99%

Overall Agreement with GC/MS is 98%.

Accuracy – Buprenorphine 10

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Buprenorphine:
The average positive agreement is 97.5%.
The average negative agreement is 98.3%.

Accuracy – Buprenorphine 5

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	0	20
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	18	2
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	100%	95%

Overall Agreement with GC/MS is 97.5%.

Accuracy – Clonazepam

The accuracy of the Clonazepam test was compared and checked against commercially available tests with a threshold value at the same cut-off levels. Urine samples taken from volunteers claiming to be non-users were examined under both tests. The results were >99.9% in agreement.

Accuracy – Cocaine 300

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	12	26
Negative	10	10	19	2	0

% agreement among positives is 95%
% agreement among negatives is 97.5%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	12	26
Negative	10	10	20	2	0

% agreement among positives is 95%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

From the results of the above tables, the total results are shown as below for Cocaine 300:
The average positive agreement is 95.8%.
The average negative agreement is 98.3%.

Accuracy – Cocaine 150

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	14	26
Negative	10	10	19	0	0

% agreement among positives is 100%
% agreement among negatives is 97.5%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Cocaine 150:
The average positive agreement is 98.3%.
The average negative agreement is 98.3%.

Accuracy – Cotinine

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	1	19
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	19	1
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	98%	98%

Overall Agreement with GC/MS is 96%.

Accuracy – 2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 300

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

From the results of the above tables, the total results are shown as below for 2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine:
The average positive agreement is 97.5%.
The average negative agreement is 98.3%.

Accuracy – 2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 100

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	1	19
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	18	2
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	95%	97.5%

Overall Agreement with GC/MS is 96%.

Accuracy – Ethyl Glucuronide

Analyte	Positive	Negative
Negative Samples	0	70
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	0	70
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	70	0
Positive Samples [>150% of cut-off]	70	0
Agreement with GC/MS	>99%	>99%

Overall Agreement with GC/MS is >99%.

Accuracy – Fentanyl

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	1	19
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	20	0
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	97.5%	100%

Overall Agreement with GC/MS is 99%.

Accuracy – Ketamine

Analyte	Positive	Negative
Negative Samples	0	270
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]		
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	274	1
Positive Samples [>150% of cut-off]		
Agreement with GC/MS	>99%	>99%

Overall Agreement with GC/MS is >99%.

Accuracy – Marijuana 50

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	14	26
Negative	10	10	19	0	0

% agreement among positives is 100%
% agreement among negatives is 97.5%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	14	26
Negative	10	10	20	0	0

% agreement among positives is 100%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	14	26
Negative	10	10	19	0	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Marijuana:
The average positive agreement is 99.2%.
The average negative agreement is 99.2%.

Accuracy – Marijuana 20

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Marijuana 20:
The average positive agreement is 97.5%.
The average negative agreement is 98.3%.

Accuracy – Methadone

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	12	26
Negative	10	10	19	2	0

% agreement among positives is 95%
% agreement among negatives is 97.5%

From the results of the above tables, the total results are shown as below for Methadone:
The average positive agreement is 96.7%.
The average negative agreement is 97.5%.

Accuracy – Methamphetamine 1000

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	18	21
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	18	21
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	17	21
Negative	10	10	20	2	0

% agreement among positives is 95%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Methamphetamine 1000:
The average positive agreement is 96.7%.
The average negative agreement is 100%.

Accuracy – Methamphetamine 500

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

From the results of the above tables, the total results are shown as below for Methamphetamine 500:
The average positive agreement is 97.5%.
The average negative agreement is 98.3%.

Accuracy – Methamphetamine 300

Analyte	Positive	Negative
Negative Samples	0	4
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	0	10
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	3	1
Positive Samples [>150% of cut-off]	22	0
Agreement with GC/MS	96%	>99%

Overall Agreement with GC/MS is 98%.

Accuracy – Methylenedioxymethamphetamine

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	14	26
Negative	10	10	19	0	0

% agreement among positives is 100%
% agreement among negatives is 97.5%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	14	26
Negative	10	10	19	0	0

% agreement among positives is 100%
% agreement among negatives is 97.5%

From the results of the above tables, the total results are shown as below for Methylenedioxymethamphetamine:
The average positive agreement is 99.2%.
The average negative agreement is 98.3%.

Accuracy – Methylphenidate

The accuracy of Methylphenidate test was compared and checked against commercially available tests with a threshold value at the same cut-off levels. Urine samples taken from volunteers claiming to be non-users were examined under both tests. The results were >97% in agreement.

Accuracy – Opiates 2000

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	15	24
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	15	24
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	15	24
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Opiates 2000:
The average positive agreement is 97.5%.
The average negative agreement is 100%.

Accuracy - Opiates 300

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	14	26
Negative	10	10	20	0	0

% agreement among positives is 100%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Opiates 300:
The average positive agreement is 98.3%.
The average negative agreement is 99.2%.

Accuracy - Oxycodone

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	12	26
Negative	10	10	19	2	0

% agreement among positives is 95%
% agreement among negatives is 97.5%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	2	13	26
Negative	10	10	18	1	0

% agreement among positives is 97.5%
% agreement among negatives is 95%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	12	26
Negative	10	10	20	2	0

% agreement among positives is 95%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Oxycodone:
The average positive agreement is 95.8%.
The average negative agreement is 97.5%.

Accuracy – Phencyclidine

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	2	13	26
Negative	10	10	18	1	0

% agreement among positives is 97.5%
% agreement among negatives is 95%

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	12	26
Negative	10	10	20	2	0

% agreement among positives is 95%
% agreement among negatives is 100%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Phencyclidine:
The average positive agreement is 96.7%.
The average negative agreement is 98.3%.

Accuracy – Pregabalin

Accuracy of the Pregabalin test was established by running urine sample against GC/MS specification.

Positive	97.2%
Negative	98.3%
Total	97.8%

Accuracy – Propoxyphene

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	1	1
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	18	2
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	95%	98%

Overall Agreement with GC/MS is 96%.

Accuracy – Synthetic Cannabinoid (K2)

Analyte	Positive	Negative
Negative Samples	1	22
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]		
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	37	0
Positive Samples [>150% of cut-off]		
Agreement with GC/MS	>97%	>99%

Overall Agreement with GC/MS is 98%.

Accuracy – Synthetic Cannabinoid (K3)

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	1	19
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	19	1
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	97.5%	97.5%

Overall Agreement with GC/MS is 97.5%.

Accuracy – Synthetic Cannabinoid (K4)

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	0	19
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	20	1
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	100%	97.5%

Overall Agreement with GC/MS is 98.8%.

Accuracy – Tramadol

Analyte	Positive	Negative
Negative Samples	0	20
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	2	18
Near Cut-off Positive Samples [between cutoff and 150% of cut-off]	19	1
Positive Samples [>150% of cut-off]	20	0
Agreement with GC/MS	98%	95%

Overall Agreement with GC/MS is 96%.

Accuracy - Tricyclic Antidepressants

Viewer A:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	13	26
Negative	10	10	19	1	0

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

Viewer B:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	1	14	26
Negative	10	10	19	0	0

% agreement among positives is 100%
% agreement among negatives is 97.5%

Viewer C:

Result	Drug-free	Less than half the cutoff Concentration by GC/MS analysis	Near cutoff negative (Between 50% below the cutoff and the cutoff concentration)	Near cutoff positive (Between the cutoff and 50% above the cutoff concentration)	High positive (Greater than 50% above the cutoff concentration)
Positive	0	0	0	13	26
Negative	10	10	20	1	0

% agreement among positives is 97.5%
% agreement among negatives is 100%

From the results of the above tables, the total results are shown as below for Tricyclic Antidepressants:
The average positive agreement is 98.3%.
The average negative agreement is 98.3%.

Precision and Sensitivity – 6-Acetylmorphine (6-ACM)

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	40	40 negative	>99%
5	40	40 negative	>99%
15	40	40 positive	>99%
20	40	40 positive	>99%

Precision and Sensitivity – Amphetamine 1000

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	2/48
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	3/47
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	1/49
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Precision and Sensitivity – Amphetamine 500

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	3/47
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	2/48
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	2/48
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Precision and Sensitivity – Amphetamine 300

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
150	30	30 negative	>99%
225	15	15 negative	>99%
375	15	15 positive	>99%
450	30	30 positive	>99%
600	30	30 positive	>99%

Precision and Sensitivity - Barbiturates

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Precision and Sensitivity – Benzodiazepine 300

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	4/46
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Precision and Sensitivity – Benzodiazepine 200

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	40	40 negative	>99%
100	40	40 negative	>99%
300	40	40 positive	>99%

Precision and Sensitivity – Buprenorphine 10

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
2.5	50	50/0
5	50	50/0
7.5	50	50/0
10	50	3/47
12.5	50	0/50
15	50	0/50
17.5	50	0/50
20	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
2.5	50	50/0
5	50	50/0
7.5	50	50/0
10	50	2/48
12.5	50	0/50
15	50	0/50
17.5	50	0/50
20	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
2.5	50	50/0
5	50	50/0
7.5	50	50/0
10	50	3/47
12.5	50	0/50
15	50	0/50
17.5	50	0/50
20	50	0/50

Precision and Sensitivity – Buprenorphine 5

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
2.5	60	60 negative	>99%
7.5	60	60 positive	>99%

Precision – Clonazepam

Test precision was determined by blind tests with control solutions. Controls with Benzodiazepines concentrations at 50% of the cut-off yielded negative results, and controls with Benzodiazepine concentrations at 150% of the cut-off yielded positive results.

Precision and Sensitivity – Cocaine 300

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	2/48
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Precision and Sensitivity – Cocaine 150

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
37.5	50	50/0
75	50	50/0
112.5	50	50/0
150	50	3/47
187.5	50	0/50
225	50	0/50
262.5	50	0/50
300	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
37.5	50	50/0
75	50	50/0
112.5	50	50/0
150	50	3/47
187.5	50	0/50
225	50	0/50
262.5	50	0/50
300	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
37.5	50	50/0
75	50	50/0
112.5	50	50/0
150	50	3/47
187.5	50	0/50
225	50	0/50
262.5	50	0/50
300	50	0/50

Precision and Sensitivity – Cotinine

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
100	60	60 negative	>99%
400	60	60 positive	>99%

Precision and Sensitivity – 2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 300

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	2/48
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	2/48
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	2/48
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Precision and Sensitivity – 2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 100

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
50	60	60 negative	>99%
150	60	60 positive	>99%

Precision and Sensitivity – Ethyl Glucuronide

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	40	40 negative	>99%
250	40	40 negative	>99%
750	40	40 positive	>99%

Precision and Sensitivity – Fentanyl

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
5	60	60 negative	>99%
15	60	60 positive	>99%

Precision and Sensitivity – Ketamine

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	24	24 negative	>99%
500	24	24 negative	>99%
1,000	24	24 positive	>99%
1,500	24	24 positive	>99%

Precision and Sensitivity – Marijuana 50

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
12.5	50	50/0
25	50	50/0
37.5	50	50/0
50	50	2/48
62.5	50	0/50
75	50	0/50
87.5	50	0/50
100	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
12.5	50	50/0
25	50	50/0
37.5	50	50/0
50	50	1/49
62.5	50	0/50
75	50	0/50
87.5	50	0/50
100	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
12.5	50	50/0
25	50	50/0
37.5	50	50/0
50	50	2/48
62.5	50	0/50
75	50	0/50
87.5	50	0/50
100	50	0/50

Precision and Sensitivity – Marijuana 20

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
5	50	50/0
10	50	50/0
15	50	50/0
20	50	3/47
25	50	0/50
30	50	0/50
35	50	0/50
40	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
5	50	50/0
10	50	50/0
15	50	50/0
20	50	3/47
25	50	0/50
30	50	0/50
35	50	0/50
40	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
5	50	50/0
10	50	50/0
15	50	50/0
20	50	2/48
25	50	0/50
30	50	0/50
35	50	0/50
40	50	0/50

Precision and Sensitivity - Methadone

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Precision and Sensitivity – Methamphetamine 1000

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	3/47
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	2/48
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	3/47
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Precision and Sensitivity – Methamphetamine 500

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	2/48
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	3/47
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	2/48
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Precision and Sensitivity – Methamphetamine 300

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	40	40 negative	>99%
150	40	40 negative	>99%
450	40	40 positive	>99%

Precision and Sensitivity - Methylenedioxymethamphetamine

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	3/47
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	2/48
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
125	50	50/0
250	50	50/0
375	50	50/0
500	50	2/48
625	50	0/50
750	50	0/50
875	50	0/50
1000	50	0/50

Precision – Methylphenidate

Test precision was determined by blind tests with control solutions. Controls with Methylphenidate concentrations at 50% of the cut-off yielded negative results, and controls with Methylphenidate concentrations at 150% of the cut-off yielded positive results.

Precision and Sensitivity – Opiates 2000

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
500	50	50/0
1000	50	50/0
1500	50	50/0
2000	50	2/48
2500	50	0/50
3000	50	0/50
3500	50	0/50
4000	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
500	50	50/0
1000	50	50/0
1500	50	50/0
2000	50	3/47
2500	50	0/50
3000	50	0/50
3500	50	0/50
4000	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
500	50	50/0
1000	50	50/0
1500	50	50/0
2000	50	3/47
2500	50	0/50
3000	50	0/50
3500	50	0/50
4000	50	0/50

Precision and Sensitivity - Opiates 300

Lot 1

Approximate concentration of sample (ng/mL)	Number of determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	2/48
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 2

Approximate concentration of sample (ng/mL)	Number of determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	3/47
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Lot 3

Approximate concentration of sample (ng/mL)	Number of determinations	Results Negative/Positive
0	50	50/0
75	50	50/0
150	50	50/0
225	50	50/0
300	50	2/48
375	50	0/50
450	50	0/50
525	50	0/50
600	50	0/50

Precision and Sensitivity - Oxycodone

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
25	50	50/0
50	50	50/0
75	50	50/0
100	50	3/47
125	50	0/50
150	50	0/50
175	50	0/50
200	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
25	50	50/0
50	50	50/0
75	50	50/0
100	50	3/47
125	50	0/50
150	50	0/50
175	50	0/50
200	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
25	50	50/0
50	50	50/0
75	50	50/0
100	50	2/48
125	50	0/50
150	50	0/50
175	50	0/50
200	50	0/50

Precision and Sensitivity - Phencyclidine

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
6.3	50	50/0
12.5	50	50/0
18.8	50	50/0
25	50	3/47
31.3	50	0/50
37.5	50	0/50
43.8	50	0/50
50	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
6.3	50	50/0
12.5	50	50/0
18.8	50	50/0
25	50	3/47
31.3	50	0/50
37.5	50	0/50
43.8	50	0/50
50	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
6.3	50	50/0
12.5	50	50/0
18.8	50	50/0
25	50	3/47
31.3	50	0/50
37.5	50	0/50
43.8	50	0/50
50	50	0/50

Analytical Sensitivity – Pregabalin

The sensitivity of Pregabalin 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. (Cut-off Range)	N	PGB	
		-	+
Negative	30	30	0
50% Cutoff	30	30	0
75% Cutoff	30	24	6
Cutoff	30	1	29
125% Cutoff	30	2	28
150% Cutoff	30	0	30
3x Cutoff	30	0	30

Precision and Sensitivity – Propoxyphene

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
150	60	60 negative	>99%
450	60	60 positive	>99%
600	60	60 positive	>99%

Precision and Sensitivity – Synthetic Cannabinoid (K2)

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
10	60	60 negative	>99%
30	60	60 positive	>99%

Precision and Sensitivity – Synthetic Cannabinoid (K3 AB-Pinaca)

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
5	60	60 negative	>99%
15	60	60 positive	>99%

Precision and Sensitivity – Synthetic Cannabinoid (K4 UR-144)

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
12.5	60	60 negative	>99%
37.5	60	60 positive	>99%

Precision and Sensitivity – Tramadol

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Result	Precision
0	60	60 negative	>99%
25	60	60 negative	>99%
75	60	60 positive	>99%

Precision and Sensitivity - Tricyclic Antidepressants

Lot 1

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	2/48
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Lot 2

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	3/47
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

Lot 3

Approximate Concentration of Sample (ng/mL)	Number of Determinations	Results Negative/Positive
0	50	50/0
250	50	50/0
500	50	50/0
750	50	50/0
1000	50	3/47
1250	50	0/50
1500	50	0/50
1750	50	0/50
2000	50	0/50

SPECIFICITY AND CROSS REACTIVITY

To test the specificity of the test, the test device was used to test 6-Acetylmorphine, Amphetamine 1000, Amphetamine 500, Amphetamine 300, Barbiturates, Benzodiazepine 300, Benzodiazepine 200, Buprenorphine 10, Buprenorphine 5, Clonazepam, Cocaine 300, Cocaine 150, Cotinine, 2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 300, 2-Ethylidene-1,5-Dimethyl-3,3-Diphenyl-pyrrolidine 100, Ethyl Glucuronide, Fentanyl, Ketamine, Marijuana 50, Marijuana 20, Methadone, Methamphetamine 1000, Methamphetamine 500, Methamphetamine 300, Methylenedioxymethamphetamine, Methylphenidate, Opiates 2000, Opiates 300, Oxycodone, Phencyclidine, Pregabalin, Propoxyphene, Synthetic Cannabinoid (K2), Synthetic Cannabinoid (K3), Synthetic Cannabinoid (K4), Tramadol, and Tricyclic Anti-depressants drug metabolites and other components of the same class that are likely to be present in urine. All the components were added to drug-free normal human urine. The following structurally related compounds produced positive results with the test when tested at levels equal to or greater than the concentrations listed below.

6-Acetylmorephine (6-ACM)	**Result**
(6-Acetylmorphine, Cutoff = 10 ng/mL)	Positive at 10 ng/mL
Morphine	Positive at 40 ng/mL
Bilirubin	Positive at 3,500 ng/mL
Codeine	Positive at 10 ng/mL
Diacetylmorphine	Positive at 50 ng/mL
Ethylmorphine	Positive at 24 ng/mL
Hydrocodone	Positive at 100 ng/mL
Hydromorphine	Positive at 100 ng/mL
Levorphanol	Positive at 400 ng/mL
Morphine3-β-D-Glucuronide	Positive at 50 ng/mL
Nalorphine	Positive at 10,000 ng/mL
Normorphine	Positive at 12,500 ng/mL
Norcodeine	Positive at 15,000 ng/mL
Oxycodone	Positive at 25,000 ng/mL
Oxymorphone	Positive at 25,000 ng/mL
Thebaine	Positive at 1,500 ng/mL

Amphetamine 1,000	**Result**
(D-Amphetamine, Cutoff = 1,000 ng/mL)	Positive at 1,000 ng/mL
L-Amphetamine	Positive at 100,000 ng/mL
DL-Amphetamine	Positive at 500 ng/mL
(±)-3,4-Methylenedioxyamphetamine (MDA)	Positive at 1,300 ng/mL
Phentermine	Positive at 100,000 ng/mL
Apomorphine	Positive at 50,000 ng/mL
β-Phenethylamine	Positive at 25,000 ng/mL
Tyramine	Positive at 10,000 ng/mL
Tryptamine	Positive at 25,000 ng/mL
D-Methamphetamine	Negative at >100,000
L-Methamphetamine	Negative at >100,000
Ephedrine	Negative at >100,000
3,4-Methylenedioxyethylamphetamine (MDE)	Negative at >100,000

Amphetamine 500	**Result**
(D-Amphetamine, Cutoff = 500 ng/mL)	Positive at 500 ng/mL
L-Amphetamine	Positive at 60,000 ng/mL
DL-Amphetamine	Positive at 1,000 ng/mL
Methylenedioxyamphetamine (MDA)	Positive at 600 ng/mL
R-(-)-Apomorphine	Positive at 13,000 ng/mL
β-Phenylethylamine	Positive at 8,000 ng/mL
Tyramine	Positive at 5,000 ng/mL
Tryptamine	Positive at 100,000 ng/mL
Hydroxyamphetamine	Positive at 600 ng/mL
D-Pseudoephedrine	Negative at ≥ 10^5 ng/mL
D-Methamphetamine	Negative at ≥ 10^5 ng/mL
L-Methamphetamine	Negative at ≥ 10^5 ng/mL
(±)-Methamphetamine	Negative at ≥ 10^5 ng/mL
Ephedrine	Negative at ≥ 10^5 ng/mL
3,4-Methylenedioxy-N-ethylamphetamine (MDEA)	Negative at ≥ 10^5 ng/mL
3,4–Methylenedioxymethamphetamine (MDMA)	Negative at ≥ 10^5 ng/mL
Phentermine	Negative at ≥ 10^5 ng/mL

Amphetamine 300	**Result**
(D-Amphetamine, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
D,l-amphetamine	Positive at 500 ng/mL
l-amphetamine	Positive at 10,000 ng/mL
Phentermine	Positive at 400 ng/mL
(+/-)Methylenedioxyamphetamine	Positive at 500 ng/mL

Barbiturates	**Result**
(Butalbital, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
Secobarbital	Positive at 300 ng/mL
Amobarbital	Positive at 3,000 ng/mL
Alphenal	Positive at 250 ng/mL
Aprobarbital	Positive at 200 ng/mL
Allobarbital	Positive at 500 ng/mL
Butabarbital	Positive at 1,000 ng/mL
Butethal	Positive at 500 ng/mL
Cyclopentobarbital	Positive at 300 ng/mL
Pentobarbital	Positive at 1,300 ng/mL
Phenobarbital	Positive at 1,900 ng/mL

Benzodiazepine 300	**Result**
(Oxazepam, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
Alprazolam	Positive at 125 ng/mL
α-Hydroxyalprazolam	Positive at 2,500 ng/mL
Bromazepam	Positive at 1,565 ng/mL
Chlordiazepoxide	Positive at 1,560 ng/mL
Clobazam	Positive at 65 ng/mL
Clonazepam	Positive at 10,000 ng/mL
Clorazepate Dipotassium	Positive at 195 ng/mL
Delorazepam	Positive at 1,560 ng/mL
Desalkylflurazepam	Positive at 1,565 ng/mL
Diazepam	Positive at 115 ng/mL
Estazolam	Positive at 165 ng/mL
Flunitrazepam	Positive at 166 ng/mL
Midazolam	Positive at 6,500 ng/mL
Nitrazepam	Positive at 300 ng/mL
Norchlordiazepoxide	Positive at 250 ng/mL
Nordiazepam	Positive at 400 ng/mL
Temazepam	Positive at 100 ng/mL
Triazolam	Positive at 2,500 ng/mL
DL-Lorazepam	Negative at ≤ 10^5 ng/mL
Methamphetamine	Negative at ≤ 10^5 ng/mL
Morphine	Negative at ≤ 10^5 ng/mL

Benzodiazepine 200	**Result**
(Oxazepam, Cutoff = 200 ng/mL)	Positive at 200 ng/mL
α-Hydroxyalprazolam	Positive at 400 ng/mL
Alprazolam	Positive at 75 ng/mL
Bromazepam	Positive at 5,000 ng/mL
Chlordiazepoxide HCl	Positive at 15 ng/mL
Clobazam	Positive at 30 ng/mL
Clonazepam	Positive at 20,000 ng/mL
Clorazepate Dipotassium	Positive at 2,000 ng/mL
Delorazepam	Positive at 1,000 ng/mL
Desalkylflurazepam	Positive at 260 ng/mL
Diazepam	Positive at 75 ng/mL
Estazolam	Positive at 50 ng/mL
Flunitrazepam	Positive at 200 ng/mL
(±) Lorazepam/ RS-Lorazepam glucuronide	Positive at 1,000 ng/mL
Midazolam	Positive at 10,000 ng/mL
Norchlordiazepoxide	Positive at 750 ng/mL
Nordiazepam	Positive at 150 ng/mL
Temazepam	Positive at 70 ng/mL
Triazolam	Positive at 3,000 ng/mL

Buprenorphine 10	**Result**
(Buprenorphine, Cutoff = 10 ng/mL)	Positive at 10 ng/mL
Buprenorphine-3-D-Glucuronide	Positive at 15 ng/mL
Norbuprenorphine	Positive at 40 ng/mL
Norbuprenorphine-3-D-Glucuronide	Positive at 500 ng/mL
Morphine	Negative at ≤ 10^5 ng/mL
Oxymorphone	Negative at ≤ 10^5 ng/mL

Buprenorphine 5	**Result**
(Buprenorphine, Cutoff = 5 ng/mL)	Positive at 5 ng/mL
Buprenorphine-3-D-Glucuronide	Positive at 15 ng/mL
Norbuprenorphine	Positive at 40 ng/mL
Norbuprenorphine-3-D-Glucuronide	Positive at 500 ng/mL
Morphine	Negative at ≤ 100,000 ng/mL
Oxymorphone	Negative at ≤ 100,000 ng/mL
Hydromorphone	Negative at ≤ 100,000 ng/mL

Clonazepam	Result
(Clonazepam, Cutoff = 150 ng/mL)	Positive at 150 ng/mL
Alprazolam	Positive at 250 ng/mL
Bromazepam	Positive at 625 ng/mL
Chlordiazepoxide	Positive at 2,500 ng/mL
Clobazam	Positive at 63 ng/mL
Oxazepam	Positive at 30 ng/mL
Clorazepate	Positive at 3,330 ng/mL
Delorazepam	Positive at 2,500 ng/mL
Desalkflurazepam	Positive at 250 ng/mL
Diazepam	Positive at 250 ng/mL
Estazolam	Positive at 5,000 ng/mL
Flunitrazepam	Positive at 375 ng/mL
Lorazepam	Positive at 1,250 ng/mL
Lormetazepam	Positive at 1,250 ng/mL
Midazolam	Positive at 100,000 ng/mL
Nitrazepam	Positive at 25,000 ng/mL
Norchlordiazepoxide	Positive at 250 ng/mL
Nordiazepam	Positive at 500 ng/mL
Sulindac	Positive at 100,000 ng/mL
Temazepam	Positive at 125 ng/mL
Triazolam	Positive at 5,000 ng/mL

Cocaine 300	Result
(Benzoylecgonine, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
Cocaine Hydrochloride	Positive at 500 ng/mL
Cocaethylene	>100,000 ng/mL
Ecgonine	>100,000 ng/mL

Cocaine 150	Result
(Benzoylecgonine, Cutoff = 150 ng/mL)	Positive at 150 ng/mL
Cocaine Hydrochloride	Positive at 3,000 ng/mL
Norcocaine	Negative at ≥ 10^5 ng/mL
Cocaethylene	Negative at ≥ 10^5 ng/mL
Ecgonine	Negative at ≥ 10^5 ng/mL

Cotinine	Result
((-)-Cotinine, Cutoff = 200 ng/mL)	Positive at 200 ng/mL
(-)-Nicotine	Positive at 6,250 ng/mL

2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 300	Result
(2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
2-Ethyl-5-Methyl-3,3-Diphenylpyrroline (EMDP)	Negative at ≤ 10^5 ng/mL
Disopyramide	Negative at ≤ 10^5 ng/mL
Methadone	Negative at ≤ 10^5 ng/mL
Levo-α-Acetylmethadol (LAAM)	Negative at ≤ 10^5 ng/mL
Alphamethadol	Negative at ≤ 10^5 ng/mL
Doxylamine	Negative at ≤ 10^5 ng/mL

2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 100	Result
(2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine, Cutoff = 100 ng/mL)	Positive at 100 ng/mL
Disopyramide	Negative at ≤ 15,000 ng/mL
Mianserin	Negative at ≤ 25,000 ng/mL
Tramadol	Negative at ≤ 60,000 ng/mL
Venlafaxine hydrochloride	Negative at ≤ 30,000 ng/mL

Ethyl Glucuronide (ETG)	Result
(Ethyl-β-D-glucuronide, Cutoff = 500 ng/mL)	Positive at 500 ng/mL

Fentanyl	Result
(Fentanyl, Cutoff = 10 ng/mL)	Positive at 10 ng/mL
Valeryl fentanyl HCl	Positive at 5,000 ng/mL
Butyryl fentanyl	Positive at 50 ng/mL
Furanyl fentanyl HCl	Positive at 250 ng/mL
Norfentanyl oxalate	Positive at 25 ng/mL
Ocfentanil	Positive at 5,000 ng/mL
Para-Fluorofentanyl	Positive at 25 ng/mL
(±)-cis-3-Methylfentanyl HCL	Positive at 250 ng/mL
Acetyl fentanyl	Positive at 1,000 ng/mL

Ketamine	Result
(Ketamine, Cutoff = 1,000 ng/mL)	Positive at 1,000 ng/mL
Methadone	Positive at 100,000 ng/mL
Meperidine	Positive at 30,000 ng/mL
Methamphetamine	Positive at 40,000 ng/mL
Methoxyphenamine	Positive at 20,000 ng/mL
D-methamphetamine	Positive at 40,000 ng/mL
Promethazine	Positive at 50,000 ng/mL
Phencyclidine	Positive at 10,000 ng/mL
Bupivacaine	Positive at 20,000 ng/mL
Disopyramide	Positive at 100,000 ng/mL
Eserine	Positive at 70,000 ng/mL
Glutathione reduced	Positive at 50,000 ng/mL
Mianserin	Positive at 30,000 ng/mL
Naphazoline hydrochloride	Positive at 20,000 ng/mL
Nomifensine	Positive at 100,000 ng/mL
Prilocaine	Positive at 50,000 ng/mL
Promazine	Positive at 100,000 ng/mL
Pyrilamine	Positive at 50,000 ng/mL
Thioridazine hydrochloride	Positive at 100,000 ng/mL
Benzthiazide	Positive at 100,000 ng/mL
Picrotoxin	Positive at 10,000 ng/mL
Phenyltoloxamine	Positive at 100,000 ng/mL
2,4,6-Trimethylbenzamide	Positive at 100,000 ng/mL
Nordiazepam	Positive at 390 ng/mL
Oxazepam	Positive at 300 ng/mL
Temazepam	Positive at 100 ng/mL
Triazolam	Positive at 2,500 ng/mL

Marijuana 50	Result
(11-nor-Δ^9-THC-9-COOH, Cutoff = 50 ng/mL)	Positive at 50 ng/mL
11-hydroxy-Δ^9-Tetrahydrocannabinol	Positive at 15,000 ng/mL
Δ^8-Tetrahydrocannabinol	Positive at 8,000 ng/mL
Δ^9-Tetrahydrocannabinol	Positive at 7,000 ng/mL
Cannabinol	>200,000
Cannabidiol	>200,000

Marijuana 20	Result
(11-nor-Δ^9-THC-9-COOH, Cutoff = 20 ng/mL)	Positive at 20 ng/mL
11-hydroxy-Δ^9-Tetrahydrocannabinol	Positive at 8,000 ng/mL
Δ^8-Tetrahydrocannabinol	Positive at 5,000 ng/mL
Δ^9-Tetrahydrocannabinol	Positive at 3,000 ng/mL
11-Nor-Δ^8-Tetrahydrocannabinol-9-COOH	Positive at 30 ng/mL
11-Nor-Δ^9-THC-Carboxy Glucuronide	Positive at 5,000 ng/mL
Cannabinol	Negative at > 10^5 ng/mL
Cannabidiol	Negative at > 10^5 ng/mL

Methadone	Result
(Methadone, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
Levo-a-Acetylmethadol	Positive at 10,000 ng/mL
Alphamethadol	Negative at ≤ 10^5 ng/mL
Doxylamine	Negative at ≤ 10^5 ng/mL
2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine	Negative at ≤ 10^5 ng/mL
2-Ethyl-5-Methyl-3,3-Diphenylpyrroline	Negative at ≤ 10^5 ng/mL

Methamphetamine 1000	Result
(D-Methamphetamine, Cutoff = 1,000 ng/mL)	Positive at 1,000 ng/mL
(±)-3,4-Methylenedioxy-n-ethylamphetamine (MDEA)	Positive at 41,600 ng/mL
DL-Methamphetamine	Positive at 1,000 ng/mL
p-Hydroxymethamphetamine	Positive at 27,000 ng/mL
(±)-3,4-Methylenedioxymethamphetamine (MDMA)	Positive at 8,000 ng/mL
L-Methamphetamine	Positive at 10,000 ng/mL
Trimethobenzamide	Negative at ≤ 10^5 ng/mL
Chloroquine	Negative at ≤ 10^5 ng/mL
Ephedrine	Negative at ≤ 10^5 ng/mL
Fenfluramine	Negative at ≤ 10^5 ng/mL
Procaine (Novocain)	Negative at ≤ 10^5 ng/mL
Ranitidine (Zantac)	Negative at ≤ 10^5 ng/mL
D-Amphetamine	Negative at ≤ 10^5 ng/mL
L-Amphetamine	Negative at ≤ 10^5 ng/mL
Oxazepam	Negative at ≤ 10^5 ng/mL
Morphine	Negative at ≤ 10^5 ng/mL

Methamphetamine 500	Result
(D-Methamphetamine, Cutoff = 500 ng/mL)	Positive at 500 ng/mL
(±)3,4-Methylenedioxy-n-ethylamphetamine (MDEA)	Positive at 20,000 ng/mL
(±)-Methamphetamine	Positive at 1,000 ng/mL
p-Hydroxymethamphetamine	Positive at 16,000 ng/mL
(±)-3,4-MDMA	Positive at 2,000 ng/mL
L-Methamphetamine	Positive at 5,000 ng/mL
Fenfluramine	Positive at 40,000 ng/mL
L-Amphetamine	Positive at 60,000 ng/mL
D-Pseudoephedrine	Negative at ≤ 10^5 ng/mL
Trimethobenzamide	Negative at ≤ 10^5 ng/mL
Chloroquine	Negative at ≤ 10^5 ng/mL
Ephedrine	Negative at ≤ 10^5 ng/mL
Procaine (Novocaine)	Negative at ≤ 10^5 ng/mL
Ranitidine (Zantac)	Negative at ≤ 10^5 ng/mL
D-Amphetamine	Negative at ≤ 10^5 ng/mL
Oxazepam	Negative at ≤ 10^5 ng/mL
Morphine	Negative at ≤ 10^5 ng/mL
(±)-3,4-MDA	Negative at ≤ 10^5 ng/mL

Methamphetamine 300	Result
(D-Methamphetamine, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
(±)3,4-Methylenedioxy-n-ethylamphetamine (MDEA)	Positive at 20,000 ng/mL
(±)-Methamphetamine	Positive at 1,000 ng/mL
P-Hydroxymethamphetamine	Positive at 16,000 ng/mL
(±)3.4-MDMA	Positive at 2,000 ng/mL
L-Methamphetamine	Positive at 5,000 ng/mL
Fenfluramine	Positive at 40,000 ng/mL
L-Amphetamine	Positive at 60,000 ng/mL
D-Pseudoephedrine	Negative at ≤ 100,000 ng/mL
Trimethobenzamide	Negative at ≤ 100,000 ng/mL
Chloroquine	Negative at ≤ 100,000 ng/mL
Ephedrine	Negative at ≤ 100,000 ng/mL
Procaine (Novaocaine)	Negative at ≤ 100,000 ng/mL
Ranitidine (Zantac)	Negative at ≤ 100,000 ng/mL
D-Amphetamine	Negative at ≤ 100,000 ng/mL
Oxazepam	Negative at ≤ 100,000 ng/mL
Morphine	Negative at ≤ 100,000 ng/mL
(+/-) 3,4-MDA	Negative at ≤ 100,000 ng/mL

Methylenedioxymethamphetamine	Result
(Methylenedioxymethamphetamine, Cutoff = 500 ng/mL)	Positive at 500 ng/mL
3,4-Methylenedioxyamphetamine HCl (MDA)	Positive at 8,000 ng/mL
3,4-Methylenedioxyethylamphetamine (MDEA)	Positive at 1,000 ng/mL
(-)-Ψ-Ephedrine	Positive at 40,000 ng/mL
D-Methamphetamine	Negative at ≤ 10^5 ng/mL
D-Amphetamine	Negative at ≤ 10^5 ng/mL
L-Amphetamine	Negative at ≤ 10^5 ng/mL
L-Methamphetamine	Negative at ≤ 10^5 ng/mL

Methylphenidate	Result
(Methylphenidate, Cutoff = 300 ng/mL)	Positive at 300 ng/mL

Opiates 2000	Result
(Morphine, Cutoff = 2,000 ng/mL)	Positive at 2,000 ng/mL
Codeine	Positive at 1,000 ng/mL
Ethylmorphine	Positive at 560 ng/mL
Hydrocodone	Positive at 5,000 ng/mL
Hydromorphone	Positive at 7,315 ng/mL
Levorphanol	Positive at 16,000 ng/mL
6-Monoacetylmorphine	Positive at 1,000 ng/mL
Morphine 3-β-D-Glucuronide	Positive at 1,300 ng/mL
Thebaine	Negative at ≤ 10^5 ng/mL
Norcodeine	Negative at ≤ 10^5 ng/mL
Normorphine	Negative at ≤ 10^5 ng/mL
Oxycodone	Negative at ≤ 10^5 ng/mL
Oxymorphone	Negative at ≤ 10^5 ng/mL
Procaine	Negative at ≤ 10^5 ng/mL
Oxazepam	Negative at ≤ 10^5 ng/mL
Methamphetamine	Negative at ≤ 10^5 ng/mL

Opiates 300	Result
(Morphine, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
6-Acetylmorphine	Positive at 750 ng/mL
Codeine	Positive at 300 ng/mL
Ethylmorphine	Positive at 200 ng/mL
Heroin	Positive at 700 ng/mL
Hydromorphone	Positive at 4,000 ng/mL
Hydrocodone	Positive at 2,000 ng/mL
Levorphanol	Positive at 12,000 ng/mL
Thebaine	Positive at 90,000 ng/mL
Methyprylon	Positive at 4,000 ng/mL
Morphine-3-β-D-Glucuronide	Positive at 450 ng/mL
Oxycodone	Negative at ≤ 10^5 ng/mL
Procaine	Negative at ≤ 10^5 ng/mL

Oxycodone	Result
(Oxycodone, Cutoff = 100 ng/mL)	Positive at 100 ng/mL
Oxymorphone	Positive at 2,000 ng/mL
Dihydrocodeine	Positive at 50,000 ng/mL
Hydrocodone	Positive at 10,000 ng/mL
Heroin	Negative at ≤ 10^5 ng/mL
Morphine 3-β-D-Glucuronide	Negative at ≤ 10^5 ng/mL
Codeine	Negative at ≤ 10^5 ng/mL
Hydromorphone	Negative at ≤ 10^5 ng/mL
Morphine	Negative at ≤ 10^5 ng/mL
Acetylmorphine	Negative at ≤ 10^5 ng/mL
Buprenorphine	Negative at ≤ 10^5 ng/mL
Ethylmorphine	Negative at ≤ 10^5 ng/mL

Phencyclidine	Result
(Phencyclidine, Cutoff = 25 ng/mL)	Positive at 25 ng/mL
Phencyclidine Morpholine	Positive at 625 ng/mL
4-Hydroxyphencyclidine	Positive at 250 ng/mL

Pregabalin	Result
(Pregabalin Cutoff = 500 ng/mL)	Positive at 500 ng/mL
Gabapentin	Positive at >20,000 ng/mL

Propoxyphene (PPX)	Result
(Propoxyphene, Cutoff = 300 ng/mL)	Positive at 300 ng/mL
D-Norpropoxyphene	Positive at 1,500 ng/mL

Synthetic Cannabinoid (K2)	Result
Synthetic Cannabinoid, Cutoff = 20 ng/mL)	Positive at 20 ng/mL
JWH-018 5-pentanoic acid metabolite	Positive at 20 ng/mL
JWH-073 4-butanoic acid metabolite	Positive at 20 ng/mL
MAM2201 N-pentanoic acid metabolite	Positive at 200 ng/mL
JWH-398 N-pentanoic acid metabolite	Positive at 400 ng/mL
JWH-210 N-(5-carboxypentyl) metabolite	Positive at 2,500 ng/mL
JWH-073 3-hydroxybutyl metabolite	Positive at 2,500 ng/mL
JWH-018 N-4-hydroxypentyl	Positive at 8,000 ng/mL
JWH-073 4-hydroxybutyl metabolite	Positive at 40,000 ng/mL
JWH-019 5-hydroxyhexyl metabolite	Positive at 40,000 ng/mL
JWH-018 5-hydroxypentyl metabolite	Positive at 45,000 ng/mL
JWH-122 5-hydroxypentyl metabolite	Positive at 50,000 ng/mL
JWH-122 4-hydroxypentyl metabolite	Positive at 50,000 ng/mL
JWH-019 6-hydroxyhexyl metabolite	Positive at 50,000 ng/mL
RCS-4 N-(5-carboxypentyl) metabolite	Positive at 50,000 ng/mL
Trifluoperazine dihydrochloride	Positive at 50,000 ng/mL
Trifluoperazine hydrochloride	Positive at 70,000 ng/mL
2,4,6-Trimethylbenzamide	Positive at 100,000 ng/mL

Synthetic Cannabinoid – AB-Pinaca (K3)	Result
(AB-Pinaca 5-Pentanoic Acid, Cutoff = 10 ng/mL)	Positive at 10 ng/mL
AB-FUBINACA	Positive at 200 ng/mL
AB-Pinaca	Positive at 100 ng/mL
AB-Pinaca 4-Hydroxypentyl Metabolite	Positive at 15 ng/mL
AB-Pinaca 5-Hydroxypentyl Metabolite	Positive at 15 ng/mL
AB-Pinaca 5-Pentanoic Acid Metabolite	Positive at 10 ng/mL
ADB-Pinaca 5-Pentanoic Acid Metabolite	Positive at 25 ng/mL
UR-144	Negative at 10,000 ng/mL
UR-144 5- Hydroxypentyl Metabolite	Negative at 10,000 ng/mL
UR-144 5- Pentanoic Acid Metabolite	Negative at 10,000 ng/mL
APinaca 5- Hydroxypentyl Metabolite	Negative at 10,000 ng/mL

Synthetic Cannabinoid – UR-144 (K4)	Result
(UR-144 5-Pentanoic Acid, Cutoff = 25 ng/mL)	Positive at 25 ng/mL
UR-144 5-Hydroxypentyl Metabolite	Positive at 300 ng/mL
UR-144	Negative at 10,000 ng/mL
AB-Fubinaca	Negative at 10,000 ng/mL
AB-Pinaca	Negative at 10,000 ng/mL
AB-Pinaca 4-Hydroxypentyl Metabolite	Negative at 10,000 ng/mL
AB-Pinaca 5-Hydroxypentyl Metabolite	Negative at 10,000 ng/mL
AB-Pinaca 5-Pentanoic Acid Metabolite	Negative at 10,000 ng/mL
APinaca 5- Hydroxypentyl Metabolite	Negative at 10,000 ng/mL
ADB-Pinaca 5-Pentanoic Acid Metabolite	Negative at 10,000 ng/mL

Tramadol	Result
(Tramadol Cutoff = 50 ng/mL)	Positive at 50 ng/mL

Tricyclic Antidepressants	Result
(Nortriptyline, Cutoff = 1,000 ng/mL)	Positive at 1,000 ng/mL
Amitriptyline	Positive at 5,000 ng/mL
Clomipramine	Positive at 15,000 ng/mL
Desipramine	Positive at 1,000 ng/mL
Doxepin	Positive at 2,000 ng/mL
Imipramine	Positive at 600 ng/mL
Nordoxepin	Positive at 1,000 ng/mL
Promazine	Positive at 24,000 ng/mL
Trimipramine	Positive at 4,000 ng/mL
Cyclobenzaprine Hydrochloride	Positive at 1,500 ng/mL
Maprotiline	Negative at ≤ 10^5 ng/mL
Promethazine	Negative at ≤ 10^5 ng/mL
Norclomipramine	Negative at ≤ 10^5 ng/mL

EFFECT OF URINARY SPECIFIC GRAVITY

Urine samples of normal, high, and low specific gravity ranges (1.000 - 1.035) were spiked with drugs at 25% below and 25% above cut-off levels respectively. The ***DrugCheck® NxStep OnSite Drug Test*** was tested using twelve 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 aliquot of negative urine pool was adjusted to pH ranges of 4.0-9.0 and spiked with drugs at 25% below and 25% above cut-off levels. The spiked, pH-adjusted urine was tested with the ***DrugCheck® NxStep OnSite Drug Test***. The results demonstrate that varying ranges of pH do not interfere with the performance of the test.

Non Cross-Reacting Compounds – 6-Acetylmorphine, Cotinine, Ethyl Glucuronide, Fentanyl, Synthetic Cannabinoid (K2), Synthetic Cannabinoid – AB-Pinaca (K3), Synthetic Cannabinoid – UR-144 (K4), Ketamine, Tramadol, Non Cross-Reacting Compounds.

Acebutolol Hydrochloride	EthylMorphine	Pentazocine
Acepromazine-d6 hydrochloride	Fenoprofen	Perphenazine
Acetaminophen	Furosemide	Penicillin G Sodium salt
N-Acetylprocainamide	Gentisic acid	Phenelzine sulfate salt
Acetophenetidin	D-Glucuronic acid	Phenobarbital
Alprazolam	Glutethimide	Phentermine HCL
Alphenal	Guaifenesin	Phenylethylamine
Amoxicillin	Hemoglobin porcine	L-phenylephrine
Ampicillin	Heroin hydrochloride	Phenylpropanolamine hydrochloride
Amitriptyline Hydrochloride Tablets	Hippuric Acid	
	Hydralazine hydrochloride	Prednisolone
S(+)Amphetamine	Hydromorphone	Prednisone Acetate Tablets
R(-)-Amphetamine	Hydrocodone	Procaine HCL
Amobarbital	α-Hydroxyhippuric acid	Promazine hydrochloride
(±)Amphetamine	21-Hydroxy progesterone	Promethazine
R-(-)-Apomorphine Hydrochloride	p-Hydroxymethamphetamine	Propoxyphene,d-
Aprobarbital	Hydrocortisone	Propranolol Hydrochloride
Aspirin	Hydrochlorothiazide	Pseudoephedrine
Aspartame	-4-Hydroxyamphetamine HCL	Phendimetrazine
L-Ascorbic Acid	Ibuprofen	Phenytoin
Atropine	Imipramine	Quinine
6-Acetylmorphine	Iprazid	Quinidine
Acetylsalicylic acid	Isoxsuprine hydrochloride	Quinacrine
Benzphetamine	Isoproterenol Hydrochloride Injection	Ranitidine Hydrochloride Tablets
Benzilic acid		Nortriptyline Hydrochloride
Benzoylecgonine	Ketamine hydrochloride	Salicylic Acid
SS Benzoic Acid	Ketoprofen	Secobarbital
Bilirubin, Mixed Isomers	Emetine dihydrochloride hydrate	Serotonin
Brompheniramine maleate	Ephedrine-(+/-) hydrochloride	Noroxymorphone HCL
Buprenorphine	(-)-Ephedrine HCL	Nylidrin hydrochloride
Buspirone hydrochloride	[1R,2S] (-) Ephedrine	Norfentanyl
Butalbital	Erythromycin	(±)-Octopamine HCL
Butabarbital	Eserine	Oxalic Acid
Cannabidiol	Estazolam	Oxolinic Acid
Cannabinol	β-Estradiol	Oxycodone
Caffeine	(±)-EDDP	Oxymetazoline
Cetirizine Hydrochloride	Ethyl-p-aminobenzoate	Papaverine
Chlordiazepoxide HCL	JWH-018 pantanoic acid	(±)-Octopamine HCL
Chlorothiazide	JWH-073 butanoic acid	Sertraline HCl
Chloroquine	Labetalol Hydrochloride	Sulfamethazine, min 99%
Chlorpheniramine Maleate	Levorphanol	Sulindac
Chlorpromazine Hydrochloride Tablets	Loperamide Hydrochloride	Temazepam
	Lorazepam	Terfenadine
Chloramphenicol	Maprotiline hydrochloride	Terbutaline
ChloralHydrate	(±)-MDEA	Tetraethylthiuram disulfide
Cholesterol	(±)-MDA	Tetrahydrocannabinol, Delta-8-((-)-delta-8-THC)
Chlorothiazide	Meperidine	
Clomipramine	Meprobamate	Tetracycline
Clonazepam	Methamphetamine hydrochloride	Tetrahydrocortisone 3-(β-D-glucuronide (-)-delta-9-THC)
Clonidine hydrochloride	(±)Methadone	
Clozapine	S(+)D-methamphetamine	(+/-)11-Hydroxy-delta-9-THC
(-) Cotinine	L-methamphetamine	(-)-11-nor-9-Carboxy-delta9-THC
Cocaethylene	Methylphenidate	Thebaine
Cocaine Hydrochloride	(±)-MDMA	Theophylline
Codeine	(±)-MDPV	Thioridazine
Cortisone	Methyprylon	Thiamine, (Vitamin B1 Tablets) HCL
Creatinine	Morphine	
Cyclopentobarbital	Morphine-3β-D-glucuronide	DL-Thyroxine
Citalopram hydrobromide	Morphine sulfate salt solution	Tolbutamide
Dextromethorphan	Nalidixic acid	Tramadol
Desipramine	Nalorphine hydrochloride	Triamterene
Diazepam	Naproxen	Trimipramine
Diclofenac Sodium salt	Naloxone	Tryptamine
Dicyclomine	Naltrexone hydrochloride	Trifluoperazine dihydrochloride
Digoxin	Nicotinamide (vitamin B3)	DL-Tryptophan
4-Dimethylaminoantipyrine	Nimesulide	Triazolam
Dihydrocodeine HCL	Nifedipine	Trans-2-phenylcyclo-propylamine hydrochhloride
5,5-Diphenylhydantoin	Norcodeine	
Diphenhydramine	Nordoxepin hydrochloride	D/L-Tyrosine
Dopamine	Norfloxacin Capsule	Tyramine
Doxylamine	Norethisterone Tablets	Uric Acid
Ecgonine methylester	d-Norpropoxyphene maleate salt	Verapamil Hydrochloride
Ecgonine HCL	Noscapine	Valproic acid
Efavirenz	PCP	Zomepirac
Ethylone	Pentobarbital	

Non Cross-Reacting Compounds – Amphetamine 300, Benzodiazepine 200, Buprenorphine 5, 2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine 100, Methamphetamine 300, and Propoxyphene.

Acetaminophen	β-Estradiol	Oxalic acid
Acetophenetidin	Erythromycin	Oxolinic acid
N-Acetylprocainamide	Ethanol (1%)	Oxymetazoline
Acetylsalicylic acid	Fenoprofen	Papaverine
Albumin (100mg/dL)	Furosemide	Penicillin G
Aminopyrine	Gentisic acid	Perphenzine
Amoxicillin	Hemoglobin	Phenelzine
Ampicillin	Hydralazine	Prednisone
Apomorphine	Hydrochlorothiazide	(±)-Propranolol
Ascorbic acid	Hydrocortisone	Pseudoephedrine
Aspartame	O-Hydroxyhippuric acid	Quinine
Atropine	3-Hyrdoxytyramine	Ranitidine
Benzilic acid	Ibuprofen	Salicylic acid

Benzoic acid	Isoproterenol	Serotonin (5-Hydroxytyramine)
Bilirubin	Isoxsuprine	Sulfamethazine
Chloral hydrate	Ketamine	Sulindac
Chloramphenicol	Ketoprofen	Tetrahydrocortisone 3-(β-Dglucuronide)
Chlorothiazide	Labetalol	
Chlorpromazine	Loperamide	Tetrahydrocortisone 3-acetate
Cholesterol	Meperidine	Tetrahydrozoline
Clonidine	Meprobamate	Thiamine
Cortisone	Methoxyphenamine	Thioridazine
(-)-Cotinine	Nalidixic acid	Triamterene
Creatinine	Naloxone	Trifluoperazine
Deoxycorticosterone	Naltrexone	Trimethoprim
Dextromethorphan	Naproxen	DL-Tryptophan
Diclofenac	Niacinamide	Tyramine
Diflunisal	Nifedipine	DL-Tyrosine
Digoxin	Norethindrone	Uric acid
Diphenhydramine	Noscapine	Verapamil
Ecgonine methyl ester	(±)-Octopamine	Zomepirac

Non Cross-Reacting Compounds – Amphetamine 1000

4-Acetamidophenol	L-Ephedrine	Oxycodone
Acetophenetidin	(-)-Ψ-Ephedrine	Oxymetazoline
N-Acetylprocainamide	Erythromycin	Papaverine
Acetylsalicylic Acid	β-Estradiol	Penicillin-G
Aminopyrine	Estrone-3-Sulfate	Pentazocine
Amitriptyline	Ethyl-p-Aminobenzoate	Pentobarbital
Amobarbital	Fenfluramine	Perphenazine
Amoxicillin	Fenoprofen	Phencyclidine
Ampicillin	Furosemide	Phenelzine
Ascorbic Acid	Gentisic Acid	Phenobarbital
Aspartame	Hemoglobin	Phenytoin
Atropine	Hydralazine	L-Phenylephrine
Benzilic Acid	Hydrochlorothiazide	Phenylpropanolamine
Benzoic Acid	Hydrocodone	Prednisolone
Benzoylecgonine	Hydrocortisone	Prednisone
Bilirubin	o-Hydroxyhippuric Acid	Procaine
Brompheniramine	3-Hydroxytyramine	Promazine
Caffeine	Ibuprofen	Promethazine
Cannabidiol	Imipramine	DL-Propranolol
Cannabinol	(-)-Isoproterenol	D-Propoxyphene
Chloral Hydrate	Isoxsuprine	Quinidine
Chloramphenicol	Ketamine	Quinine
Chlordiazepoxide	Ketoprofen	Ranitidine
Chlorothiazide	Labetalol	Salicylic Acid
(±)-Chlorpheniramine	Levorphanol	Secobarbital
Chlorpromazine	Loperamide	Sulfamethazine
Chloroquine	Maprotiline	Sulindac
Cholesterol	Meperidine	Temazepam
Clomipramine	Meprobamate	Tetracycline
Clonidine	Methadone	Tetrahydrocortisone
Cocaine Hydrochloride	Methylphenidate	Tetrahydrozoline
Codeine	Morphine 3-β-D-Glucuronide	Δ^9-THC-COOH
Cortisone	Nalidixic Acid	Thebaine
(-)-Cotinine	Naloxone	Thiamine
Creatinine	Naltrexone	Thioridazine
Deoxycorticosterone	Naproxen	DL-Thyroxine
Dextromethorphan	Niacinamide	Tolbutamide
Diazepam	Nifedipine	Triamterene
Diclofenac	Norcodeine	Trifluoperazine
Diflunisal	Norethindrone	Trimethoprim
Digoxin	D-Norpropoxyphene	Trimipramine
Diphenhydramine	Noscapine	Tryptamine
Doxylamine	DL-Octopamine	DL-Tyrosine
Ecgonine Hydrochloride	Oxalic Acid	Uric Acid
Ecgonine Methyl Ester	Oxazepam	Verapamil
(IR,2S)-(-)-Ephedrine	Oxolinic Acid	Zomepirac

Non Cross-Reacting Compounds – Amphetamine 500

Acetaminophen (4-Acetamidophenol)	EMDP	D,L-Octopamine
	Erythromycin	Oxalic Acid
Acetophenetidin	β-Estradiol	Oxazepam
N-Acetylprocainamide	Fenoprofen	Oxolinic Acid
Acetylsalicylic Acid	Furosemide	Oxymetazoline
Albumin	Gentisic Acid	Papaverine
Aminopyrine	Hemoglobin	Penicillin-G
D-Amphetamine	Hydralazine	Pentobarbital
Amoxicillin	Hydrochlorothiazide	Perphenazine
Ampicillin	Hydrocodone	Phenelzine
Apomorphine	Hydrocortisone	Phencyclidine
L-Ascorbic Acid	o-Hydroxyhippuric Acid	Prednisone
Aspartame	3-Hydroxytyramine	Procaine
Atropine	Ibuprofen	DL-Propranolol
Benzilic Acid	D,L-Isoproterenol	D-Propoxyphene
Benzoic Acid	Isoxsuprine	D-Pseudoephedrine
Benzoylecgonine	Ketamine	Quinine
Bilirubin	Ketoprofen	Ranitidine
Cannabidiol	Labetalol	Salicylic Acid
Chloral Hydrate	Loperamide	Secobarbital
Chloramphenicol	Maprotiline	Serotonin (5-Hydroxytyramine)
Chlorothiazide	Meperidine	Sulfamethazine
Chlorpromazine	Meprobamate	Sulindac
Chloroquine	Methadone	Tetrahydrocortisone 3-(β-D-Glucuronide)
Cholesterol	Methamphetamine	
Clonidine	Methoxyphenamine	Tetrahydrozoline
Codeine	Morphine-3-β-D-Glucuronide	Thiamine
Cortisone	Nalidixic acid	Thioridazine
(-)-Cotinine	Naloxone	Triamterene
Creatinine	Naltrexone	DL-Tyrosine
Deoxycorticosterone	Naproxen	Trifluoperazine
Dextromethorphan	Niacinamide	Trimethoprim
Diclofenac	Nifedipine	DL-Tryptophan
Diflunisal	Norcodeine	Tyramine
Digoxin	Norethindrone	Uric Acid
Diphenhydramine	D-Norpropoxyphene	Verapamil
Ecgonine Methyl Ester	Noscapine	Zomepirac

Non Cross-Reacting Compounds - Barbiturates

Acetaminophen	(IR,2S)-(-)-Ephedrine	Noscapine
Acetophenetidin	Erythromycin	11-nor-Δ^9-THC-9-COOH
Acetylsalicylic Acid	β-Estradiol	Nortriptyline
Aminopyrine	Estrone-3-Sulfate	o-Hydroxyhippuric Acid
Amitriptyline	Ethyl-p-Aminobenzoate	DL-Octopamine
Amoxicillin	Fenoprofen	Oxalic Acid
Amphetamine	Furosemide	Oxazepam
Ampicillin	Gentisic Acid	Oxolinic Acid
Apomorphine	Hemoglobin	Oxycodone
Ascorbic Acid	Hydralazine	Oxymetazoline
Aspartame	Hydrochlorothiazide	Papaverine
Atropine	Hydrocodone	Penicillin-G
Benzilic Acid	Hydrocortisone	Pentazocine
Benzoic Acid	p-Hydroxyamphetamine	Perphenazine
Benzoylecgonine	p-Hydroxymethamphetamine	Phencyclidine
Bilirubin	3-Hydroxytyramine	Phenelzine
Brompheniramine	Ibuprofen	β-Phenethylamine
Buprenorphine	Imipramine	Phenylpropanolamine
Caffeine	(-)-Isoproterenol	Prednisolone
Cannabidiol	Isoxsuprine	Prednisone
Cannabinol	Ketamine	Procaine
Chloral Hydrate	Ketoprofen	Promazine
Chloramphenicol	Labetalol	Promethazine
Chlorothiazide	Levorphanol	DL-Propranolol
(±)-Chlorpheniramine	Loperamide	D-Propoxyphene
Chlorpromazine	L-Phenylephrine	Quinidine
Chloroquine	Maprotiline	Quinine
Cholesterol	Meperidine	Ranitidine

Clomipramine	Meprobamate	Salicylic Acid
Clonidine	Morphine	Serotonin
Cocaine Hydrochloride	Morphine-3-β-D-Glucuronide	Sulfamethazine
Codeine	Methadone	Sulindac
Cortisone	Methamphetamine	Temazepam
(-)-Cotinine	(±)-3,4-Methylenedioxy-amphetamine Hydrochloride	Tetracycline
Creatinine		Tetrahydrozoline
Deoxycorticosterone	Methylenedioxymethamphetamine	Thebaine
Dextromethorphan	Morphine Sulfate	Thiamine
Diazepam	N-Acetylprocainamide	Thioridazine
Diclofenac	Nalidixic Acid	Triamterene
Diflunisal	Naloxone	Trifluoperazine
Digoxin	Naltrexone	Trimethoprim
Diphenhydramine	Naproxen	Trimipramine
Doxylamine	Niacinamide	Tryptamine
Ecgonine Hydrochloride	Nifedipine	DL-Tyrosine
Ecgonine Methyl Ester	Norcodeine	Uric Acid
2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine	Norethindrone	Verapamil
	D-Norpropoxyphene	Zomepirac

Non Cross-Reacting Compounds – Benzodiazepine 300

4-Acetamidophenol	Ecgonine Hydrochloride	Oxalic Acid
Acetophenetidin	Ecgonine Methyl Ester	Oxolinic Acid
N-Acetylprocainamide	(-)-Ψ-Ephedrine	Pentobarbital
Acetylsalicylic Acid	Fenoprofen	Perphenazine
Aminopyrine	Furosemide	Phencyclidine
Amitriptyline	Gentisic Acid	Phenelzine
Amobarbital	Hemoglobin	Phenobarbital
Amoxicillin	Hydrocortisone	Phentermine
Ampicillin	o-Hydroxyhippuric Acid	L-Phenylephrine
L-Ascorbic Acid	p-Hydroxymethamphetamine	β-Phenylethylamine
DL-Amphetamine	3-Hydroxytyramine	Phenylpropanolamine
Apomorphine	Ibuprofen	Prednisone
Aspartame	Imipramine	DL-Propranolol
Atropine	Iproniazid	D-Pseudoephedrine
Benzilic Acid	(±)-Isoproterenol	Quinine
Benzoic Acid	Isoxsuprine	Ranitidine
Benzoylecgonine	Ketamine	Salicylic Acid
Benzphetamine	Ketoprofen	Secobarbital
Bilirubin	Labetalol	Serotonin (5-Hydroxytyramine)
(±)-Chlorpheniramine	Loperamide	Sertraline
Caffeine	Maprotiline	Sulfamethazine
Cannabidiol	Meperidine	Sulindac
Chloral Hydrate	Meprobamate	Tetrahydrocortisone 3-(β-D-Glucuronide)
Chloramphenicol	Methadone	
Chlorothiazide	Methoxyphenamine	Tetrahydrozoline
Chlorpromazine	(+)-3,4-Methylenedioxyamphetamine	Thiamine
Chloroquine		Thioridazine
Cholesterol	(+)-3,4-Methylenedioxymethamphetamine	DL-Tyrosine
Clomipramine		Tolbutamide
Clonidine	Nalidixic Acid	Triamterene
Cocaine Hydrochloride	Nalorphine	Trifluoperazine
Cortisone	Naloxone	Trimethoprim
(-)-Cotinine	Naltrexone	Tryptamine
Creatinine	Naproxen	DL-Tryptophan
Dextromethorphan	Niacinamide	Tyramine
Diclofenac	Nifedipine	Uric Acid
Diflunisal	Norethindrone	Verapamil
Dioxin	D-Norpropoxyphene	Zomepirac
Diphenhydramine	Noscapine	
Doxylamine	DL-Octopamine	

Non Cross-Reacting Compounds – Buprenorphine 10

4-Acetamidophenol	Erythromycin	Oxazepam
Acetophenetidin	β-Estradiol	Oxolinic Acid
N-Acetylprocainamide	Estrone-3-Sulfate	Oxycodone
Acetylsalicylic Acid	Ethyl-p-Aminobenzoate	Oxymetazoline
Aminopyrine	Fenoprofen	Papaverine
Amobarbital	Furosemide	Penicillin-G
Amoxicillin	Gentisic Acid	Pentazocine Hydrochloride
Ampicillin	Hemoglobin	Pentobarbital
L-Ascorbic Acid	Hydralazine	Perphenazine
Amphetamine	Hydrochlorothiazide	Phencyclidine
Apomorphine	Hydrocodone	Phenelzine
Aspartame	Hydrocortisone	Phenobarbital
Atropine	o-Hydroxyhippuric Acid	Phentermine
Benzilic Acid	p-Hydroxyamphetamine	β-Phenylethylamine
Benzoic Acid	p-Hydroxymethamphetamine	Trans-2-Phenylcyclopropylamine Hydrochloride
Benzoylecgonine	3-Hydroxytyramine	
Benzphetamine	Ibuprofen	L-Phenylephrine
Bilirubin	Iprazid	Phenylpropanolamine
(±)-Brompheniramine	(±)-Isoproterenol	Prednisolone
Butalbital	Isoxsuprine	Prednisone
Caffeine	Ketamine	Procaine
Cannabidiol	Ketoprofen	DL-Propranolol
Cannabinol	Labetalol	D-Propoxyphene
Chloral Hydrate	Loperamide	D-Pseudoephedrine
Chloramphenicol	3,4-Methylenedioxy-N-Ethylamphetamine	Quinacrine
Chlorothiazide		Quinidine
(±)-Chlorpheniramine	Meperidine	Quinine
Chlorpromazine	Meprobamate	Ranitidine
Chloroquine	Methadone	Salicylic Acid
Cholesterol	L-Methamphetamine	Secobarbital
Clonidine	Methoxyphenamine	Serotonin
Cocaethylene	(±)-3,4-Methylenedioxy-amphetamine Hydrochloride	Sulfamethazine
Cocaine Hydrochloride		Sulindac
Codeine	Methylenedioxymethamphetamine	Tetracycline
Cortisone	Morphine	Tetrahydrocortisone 3-(β-D-Glucuronide)
(-)-Cotinine	Morphine-3-β-D-Glucuronide	
Creatinine	Morphine Sulfate	Tetrahydrozoline
Deoxycorticosterone	Nalidixic Acid	Thiamine
Dextromethorphan	Naloxone	Thioridazine
Diclofenac	Naltrexone	DL-Tyrosine
Diflunisal	Naproxen	Tolbutamide
Digoxin	Niacinamide	Triamterene
Diphenhydramine	Nifedipine	Trifluoperazine
Doxylamine	Norcodeine	Trimethoprim
Ecgonine Hydrochloride	Norethindrone	Tryptamine
Ecgonine Methyl Ester	D-Norpropoxyphene	DL-Tryptophan
Ephedrine	11-nor-Δ^9-THC-9-COOH	Tyramine
L-Epinephrine	Nortriptyline	Uric Acid
2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine	Noscapine	Verapamil
	Oxalic Acid	Zomepirac

Non Cross-Reacting Compounds – Clonazepam

(-)-Ephedrine	Chlorpheniramine	Oxalic Acid
(+)-Naproxen	Creatine	Penicillin-G
(+/-)-Ephedrine	Dextromethorphan	Pheniramine
4-Dimethylaminoantiyrine	Dextrorphan tartrate	Phenothiazine
Acetaminophen	Dopamine	Procaine
Acetone	Erythromycin	Protonix
Albumin	Ethanol	Pseudoephedrine
Amitriptyline	Furosemide	Quinidine
Ampicillin	Glucose	Ranitidine
Aspartame	Guaiacol Glyceryl Ether	Sertraline
Aspirin	Hemoglobin	Tyramine
Benzocaine	Ibuprofen	Vitamin C (Ascorbic Acid)
Bilirubin	Imipramine	Trimeprazine
b-Phenylethyl-amine	Isoproterenol	Venlafaxine
Caffeine	Lidocaine	
Chloroquine	Methadone	

Non Cross-Reacting Compounds – Cocaine 300

Acetaminophen	Ethyl-p-Aminobenzoate	Oxymetazoline
Acetophenetidin	Fenoprofen	Papaverine
N-Acetylprocainamide	Furosemide	Penicillin-G
Acetylsalicylic Acid	Gentisic Acid	Pentobarbital
Aminopyrine	Hemoglobin	Perphenazine
Amitriptyline	Hydralazine	Phencyclidine
Amobarbital	Hydrochlorothiazide	Phenelzine
Amoxicillin	Hydrocodone	Phenobarbital
Ampicillin	Hydrocortisone	Phentermine
L-Ascorbic Acid	o-Hydroxyhippuric Acid	L-Phenylephrine
DL-Amphetamine Sulfate	p-Hydroxymethamphetamine	β-Phenylethylamine
Apomorphine	3-Hydroxytyramine	Phenylpropanolamine
Aspartame	Ibuprofen	Prednisolone
Atropine	Imipramine	Prednisone
Benzilic Acid	Iproniazid	Procaine
Benzoic Acid	(±)-Isoproterenol	Promazine
Benzphetamine	Isoxsuprine	Promethazine
(±)-Brompheniramine	Ketamine	DL-Propranolol
Caffeine	Ketoprofen	D-Propoxyphene
Cannabidiol	Labetalol	D-Pseudoephedrine
Cannabinol	Levorphanol	Quinidine
Chloral Hydrate	Loperamide	Quinine
Chloramphenicol	Maprotiline	Ranitidine
Chlordiazepoxide	Meperidine	Salicylic Acid
Chlorothiazide	Meprobamate	Secobarbital
(±)-Chlorpheniramine	Methadone	Serotonin
Chlorpromazine	Methoxyphenamine	Sulfamethazine
Chloroquine	(±)-3,4-Methylenedioxyamphetamine	Sulindac
Cholesterol		Temazepam
Clomipramine	(±)-3,4-Methylenedioxymeth-amphetamine Hydrochloride	Tetracycline
Clonidine		Tetrahydrocortisone 3-(β-D-Glucuronide)
Codeine	Morphine-3-β-D-Glucuronide	
Cortisone	Morphine Sulfate	Tetrahydrozoline
(-)-Cotinine	Nalidixic Acid	Thebaine
Creatinine	Naloxone	Thiamine
Deoxycorticosterone	Naltrexone	Thioridazine
Dextromethorphan	Naproxen	DL-Tyrosine
Diazepam	Niacinamide	Tolbutamide
Diclofenac	Nifedipine	Triamterene
Diflunisal	Norcodeine	Trifluoperazine
Digoxin	Norethindrone	Trimethoprim
Diphenhydramine	D-Norpropoxyphene	Trimipramine
Doxylamine	Noscapine	Tryptamine
Ecgonine Methyl Ester	DL-Octopamine	DL-Tryptophan
(-)-Ψ-Ephedrine	Oxalic Acid	Tyramine
Erythromycin	Oxazepam	Uric Acid
β-Estradiol	Oxolinic Acid	Verapamil
Estrone-3-Sulfate	Oxycodone	Zomepirac

Non Cross-Reacting Compounds – Cocaine 150

Acetaminophen (4-Acetamidophenol)	Erythromycin	Oxalic Acid
	β-Estradiol	Oxazepam
Acetophenetidin	Fenoprofen	Oxolinic Acid
N-Acetylprocainamide	Furosemide	Oxymetazoline
Acetylsalicylic Acid	Gentisic Acid	Papaverine
Albumin	Hemoglobin	Penicillin-G
Aminopyrine	Hydralazine	Pentobarbital
D-Amphetamine	Hydrochlorothiazide	Perphenazine
Amoxicillin	Hydrocodone	Phenelzine
Ampicillin	Hydrocortisone	Phencyclidine
Apomorphine	o-Hydroxyhippuric Acid	Prednisone
L-Ascorbic Acid	3-Hydroxytyramine	Procaine
Aspartame	Ibuprofen	DL-Propranolol
Atropine	D,L-Isoproterenol	D-Propoxyphene
Benzilic Acid	Isoxsuprine	D-Pseudoephedrine
Benzoic Acid	Ketamine	Quinine
Bilirubin	Ketoprofen	Ranitidine
Cannabidiol	Labetalol	Salicylic Acid
Chloral Hydrate	Loperamide	Secobarbital
Chloramphenicol	Maprotiline	Serotonin (5-Hydroxytyramine)
Chlorothiazide	Meperidine	Sulfamethazine
Chlorpromazine	Meprobamate	Sulindac
Chloroquine	Methadone	Tetrahydrocortisone 3-(β-D-Glucuronide)
Cholesterol	Methamphetamine	
Clonidine	Methoxyphenamine	Tetrahydrozoline
Codeine	Morphine-3-β-D-Glucuronide	Thiamine
Cortisone	Nalidixic acid	Thioridazine
(-)-Cotinine	Naloxone	Triamterene
Creatinine	Naltrexone	DL-Tyrosine
Deoxycorticosterone	Naproxen	Trifluoperazine
Dextromethorphan	Niacinamide	Trimethoprim
Diclofenac	Nifedipine	DL-Tryptophan
Diflunisal	Norcodeine	Tyramine
Digoxin	Norethindrone	Uric Acid
Diphenhydramine	D-Norpropoxyphene	Verapamil
EMDP	Noscapine	Zomepirac
Ecgonine Methyl Ester	DL-Octopamine	

Non Cross-Reacting Compounds - 2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine 300

Acetaminophen	Ecgonine Methyl Ester	o-Hydroxyhippuric Acid
Acetophenetidin	(IR,2S)-(-)-Ephedrine	Oxalic Acid
Acetylsalicylic Acid	Erythromycin	Oxazepam
Amobarbital	β-Estradiol	Oxolinic Acid
Aminopyrine	Estrone-3-Sulfate	Oxycodone
Amitriptyline	Ethyl p-Aminobenzoate	Oxymetazoline
Amoxicillin	Fenoprofen	Papaverine
DL-Amphetamine Sulfate	Furosemide	Penicillin-G
Ampicillin	Gentisic Acid	Pentazocine
Apomorphine	Hemoglobin	Pentobarbital
Ascorbic Acid	Hydralazine	Perphenazine
Aspartame	Hydrochlorothiazide	Phencyclidine
Atropine	Hydrocodone	Phenelzine
Benzilic Acid	Hydrocortisone	Phenobarbital
Benzoic Acid	p-Hydroxyamphetamine	Phentermine
Benzoylecgonine	p-Hydroxymethamphetamine	β-Phenylethylamine
Bilirubin	3-Hydroxytyramine	Phenylpropanolamine
Brompheniramine	Ibuprofen	Prednisolone
Caffeine	Imipramine	Prednisone
Cannabidiol	(-)-Isoproterenol	Procaine
Cannabinol	Isoxsuprine	Promazine
Chloral Hydrate	Ketamine	Promethazine
Chloramphenicol	Ketoprofen	Quinidine
Chlorothiazide	Labetalol	Quinine
(±)-Chlorpheniramine	Levorphanol	Ranitidine
Chlorpromazine	Loperamide	Salicylic Acid
Chloroquine	L-Phenylephrine	Secobarbital
Cholesterol	Maprotiline	Serotonin
Clomipramine	Meperidine	Sulfamethazine
Clonidine	Meprobamate	Sulindac
Cocaine Hydrochloride	Methamphetamine	Temazepam
Codeine	Methoxyphenamine	Tetracycline
(-)-Cotinine	(±)-3,4-Methylenedioxy-amphetamine Hydrochloride	Tetrahydrocortisone 3-(β-D-Glucuronide)
Cortisone		
Creatinine	(±)-3,4-Methylenedioxy-methamphetamine Hydrochloride	Tetrahydrozoline
Deoxycorticosterone		Thebaine
Dextromethorphan	Morphine Sulfate	Thiamine
Diazepam	Morphine-3-β-D-Glucuronide	Thioridazine
Diclofenac	N-Acetylprocainamide	Triamterene
Diflunisal	Nalidixic Acid	Trifluoperazine
Digoxin	Naloxone	Trimethoprim
Diphenhydramine	Naltrexone	Trimipramine
D-Norpropoxyphene	Naproxen	Tryptamine
D-Propoxyphene	Niacinamide	DL-Tryptophan
DL-Tyrosine	Nifedipine	Tyramine
DL-Octopamine	Norcodeine	Uric Acid
DL-Propranolol	Norethindrone	Verapamil
Ecgonine Hydrochloride	Noscapine	Zomepirac

Non Cross-Reacting Compounds – Marijuana 50

4-Acetamidophenol	Estrone-3-Sulfate	Papaverine
Acetophenetidin	Ethyl-p-Aminobenzoate	Penicillin-G
N-Acetylprocainamide	Fenoprofen	Pentazocine
Acetylsalicylic Acid	Furosemide	Pentobarbital
Aminopyrine	Gentisic Acid	Perphenazine
Amitriptyline	Hemoglobin	Phencyclidine
Amobarbital	Hydralazine	Phenelzine
Amoxicillin	Hydrochlorothiazide	Phenobarbital
Ampicillin	Hydrocodone	Phentermine
Ascorbic Acid	Hydrocortisone	L-Phenylephrine
DL-Amphetamine	o-Hydroxyhippuric Acid	β-Phenethylamine
L-Amphetamine	3-Hydroxytyramine	β-Phenylethylamine
Apomorphine	Ibuprofen	Phenylpropanolamine
Aspartame	Imipramine	Prednisolone
Atropine	Iproniazid	Prednisone
Benzilic Acid	(-)-Isoproterenol	Procaine
Benzoic Acid	Isoxsuprine	Promazine
Benzoylecgonine	Ketamine	Promethazine
Benzphetamine	Labetalol	DL-Propranolol
Bilirubin	Levorphanol	D-Propoxyphene
Brompheniramine	Loperamide	D-Pseudoephedrine
Caffeine	Maprotiline	Quinidine
Chloral Hydrate	Meprobamate	Quinine
Chloramphenicol	Methadone	Ranitidine
Chlordiazepoxide	Methoxyphenamine	Salicylic Acid
Chlorothiazide	(+)-3,4-Methylenedioxyamphetamine	Secobarbital
(±)-Chlorpheniramine		Serotonin (5-Hydroxytyramine)
Chlorpromazine	(+)-3,4-Methylenedioxy-methamphetamine	Sulfamethazine
Chloroquine		Sulindac
Cholesterol	Methylphenidate	Temazepam
Clomipramine	Methyprylon	Tetracycline
Clonidine	Morphine 3-β-D-Glucuronide	Tetrahydrocortisone 3-(β-D-Glucuronide)
Cocaine Hydrochloride	Nalorphine	
Codeine	Naloxone	Tetrahydrozoline
Cortisone	Nalidixic Acid	Thebaine
(-)-Cotinine	Naltrexone	Thiamine
Creatinine	Naproxen	Thioridazine
Deoxycorticosterone	Niacinamide	DL-Thyroxine
Dextromethorphan	Nifedipine	Tolbutamide
Diazepam	Norcodeine	Triamterene
Diclofenac	Norethindrone	Trifluoperazine
Diflunisal	D-Norpropoxyphene	Trimethoprim
Digoxin	Noscapine	Trimipramine
Diphenhydramine	DL-Octopamine	Tryptamine
Doxylamine	Oxalic Acid	DL-Tryptophan
Ecgonine Hydrochloride	Oxazepam	Tyramine
Ecgonine Methyl Ester	Oxolinic Acid	DL-Tyrosine
(-)-Ψ-Ephedrine	Oxycodone	Uric Acid
Erythromycin	Oxymetazoline	Verapamil
β-Estradiol	p-Hydroxymethamphetamine	Zomepirac

Non Cross-Reacting Compounds – Marijuana 20

Acetaminophen (4-Acetamidophenol)	2-Ethyl-5-Methyl-3,3-Diphenylpyrroline	Oxalic Acid
		Oxazepam
Acetophenetidin	β-Estradiol	Oxolinic Acid
N-Acetylprocainamide	Fenoprofen	Oxymetazoline
Acetylsalicylic Acid	Furosemide	Papaverine
Albumin	Gentisic Acid	Penicillin-G
Aminopyrine	Hemoglobin	Pentobarbital
D-Amphetamine	Hydralazine	Perphenazine
Amoxicillin	Hydrochlorothiazide	Phenelzine
Ampicillin	Hydrocodone	Phencyclidine
Apomorphine	Hydrocortisone	Prednisone
L-Ascorbic Acid	o-Hydroxyhippuric Acid	Procaine
Aspartame	3-Hydroxytyramine	DL-Propranolol
Atropine	Ibuprofen	D-Propoxyphene
Benzilic Acid	DL-Isoproterenol	D-Pseudoephedrine
Benzoic Acid	Isoxsuprine	Quinine
Benzoylecgonine	Ketamine	Ranitidine
Bilirubin	Ketoprofen	Salicylic Acid
Cannabidiol	Labetalol	Secobarbital
Chloral Hydrate	Loperamide	Serotonin (5-Hydroxytyramine)
Chloramphenicol	Maprotiline	Sulfamethazine
Chlorothiazide	Meperidine	Sulindac
Chlorpromazine	Meprobamate	Tetrahydrocortisone 3-(β-D-Glucuronide)
Chloroquine	Methadone	
Cholesterol	Methamphetamine	Tetrahydrozoline
Clonidine	Methoxyphenamine	Thiamine
Codeine	Morphine 3-β-D-Glucuronide	Thioridazine
Cortisone	Nalidixic acid	Triamterene
(-)-Cotinine	Naloxone	DL-Tyrosine
Creatinine	Naltrexone	Trifluoperazine
Deoxycorticosterone	Naproxen	Trimethoprim
Dextromethorphan	Niacinamide	DL-Tryptophan
Diclofenac	Nifedipine	Tyramine
Diflunisal	Norcodeine	Uric Acid
Digoxin	Norethindrone	Verapamil
Diphenhydramine	D-Norpropoxyphene	Zomepirac
Ecgonine Methyl Ester	Noscapine	
Erythromycin	DL-Octopamine	

Non Cross-Reacting Compounds - Methadone

Acetaminophen	β-Estradiol	Oxycodone
Acetophenetidin	Estrone-3-Sulfate	Oxymetazoline
N-Acetylprocainamide	Ethyl-p-Aminobenzoate	Papaverine
Acetylsalicylic Acid	Fenoprofen	Penicillin-G
Aminopyrine	Furosemide	Pentazocine Hydrochloride
Amitriptyline	Gentisic Acid	Pentobarbital
Amobarbital	Hemoglobin	Perphenazine
Amoxicillin	Hydralazine	Phencyclidine
Ampicillin	Hydrochlorothiazide	Phenelzine
L-Ascorbic Acid	Hydrocodone	Phenobarbital
DL-Amphetamine Sulfate	Hydrocortisone	Phentermine
Apomorphine	o-Hydroxyhippuric Acid	L-Phenylephrine
Aspartame	p-Hydroxyamphetamine	β-Phenylethylamine
Atropine	p-Hydroxymethamphetamine	Phenylpropanolamine
Benzilic Acid	3-Hydroxytyramine	Prednisolone
Benzoic Acid	Ibuprofen	Prednisone
Benzoylecgonine	Imipramine	Procaine
Benzphetamine	Iproniazid	Promazine
Bilirubin	(±)-Isoproterenol	Promethazine
Caffeine	Isoxsuprine	DL-Propranolol
Cannabidiol	Ketamine	D-Propoxyphene
Cannabinol	Ketoprofen	D-Pseudoephedrine
Chloral Hydrate	Labetalol	Quinacrine
Chloramphenicol	Levorphanol	Quinidine
Chlorothiazide	Loperamide	Quinine
Chlorpromazine	Maprotiline	Ranitidine
Chloroquine	Meperidine	Salicylic Acid
Cholesterol	Meprobamate	Secobarbital
Clomipramine	Methamphetamine	Serotonin
Clonidine	Methoxyphenamine	Sulfamethazine
Cocaethylene	(±)-3,4-Methylenedioxy-amphetamine Hydrochloride	Sulindac
Temazepam		Tetracycline
Cocaine Hydrochloride	(±)-3,4-Methylenedioxymeth-amphetamine Hydrochloride	Tetrahydrocortisone 3-(β-D-Glucuronide)
Codeine		
Cortisone	Morphine-3-β-D-Glucuronide	Tetrahydrozoline
(-)-Cotinine	Morphine Sulfate	Thebaine
Creatinine	Nalidixic Acid	Thiamine
Deoxycorticosterone	Naloxone	Thioridazine
Dextromethorphan	Naltrexone	DL-Tyrosine
Diazepam	Naproxen	Tolbutamide
Diclofenac	Niacinamide	Triamterene
Diflunisal	Nifedipine	Trifluoperazine
Digoxin	Norcodeine	Trimethoprim
Diphenhydramine	Norethindrone	Trimipramine
Ecgonine Hydrochloride	D-Norpropoxyphene	Tryptamine
Ecgonine Methyl Ester	Noscapine	DL-Tryptophan
(-)-Ψ-Ephedrine	DL-Octopamine	Tyramine
(IR,2S)-(-)-Ephedrine	Oxalic Acid	Uric Acid
L-Epinephrine	Oxazepam	Verapamil
Erythromycin	Oxolinic Acid	Zomepirac

Non Cross-Reacting Compounds – Methamphetamine 1000

Acetaminophen	Gentisic Acid	Oxycodone
Acetophenetidin	Glucuronide	Oxymetazoline
N-Acetylprocainamide	Glutethimide	Papaverine
Acetylsalicylate	Guaifenesin	Penicillin-G
Aminopyrine	Hippuric Acid	Pentazocine
Amitriptyline	Hydralazine	Pentobarbital
Amobarbital	Hydrochlorothiazide	Perphenazine
Amoxicillin	Hydrocodone	Phencyclidine
Ampicillin	Hydrocortisone	Phenelzine
Apomorphine	o-Hydroxyhippuric Acid	Phenobarbital
Aspartame	3-Hydroxytyramine	Prednisolone
Atropine	Ibuprofen	Phenylpropanolamine
Benzilic Acid	Imipramine	Prednisone
Benzoic Acid	(-)-Isoproterenol	Procaine
Benzoylecgonine	Isoxsuprine	Promazine
Butabarbital	Ketamine	Promethazine
Cannabidiol	Ketoprofen	DL-Propranolol
Chloral Hydrate	Labetalol	D-Propoxyphene
Chloramphenicol	Levorphanol	D-Pseudoephedrine
Chlordiazepoxide	Loperamide	Quinidine
Chlorothiazide	Loxapine Succinate	Quinine
Chlorpromazine	Maprotiline	Ranitidine
Cholesterol	Meperidine	Salicylic Acid
Clomipramine	Meprobamate	Secobarbital
Clonidine	Methadone	Serotonin (5-Hydroxytyramine)
Cocaine Hydrochloride	Methaqualone	Sulfamethazine
Codeine	Methylphenidate	Sulindac
Cortisone	Methyprylon	Temazepam
(-)-Cotinine	Morphine-3-β-D-Glucuronide	Tetracycline
Creatinine	Nalidixic Acid	Tetrahydrocortisone 3-(β-D-Glucuronide)
Deoxycorticosterone	Nalorphine	
Dextromethorphan	Naloxone	Tetrahydrozoline
Diazepam	Naltrexone	Thebaine
Diclofenac	Naproxen	Thiamine
Diflunisal	Niacinamide	Thioridazine
Digoxin	Nifedipine	Tolbutamide
Diphenhydramine	Norcodeine	Triamterene
Doxylamine	Norethindrone	Trifluoperazine
Ecgonine Hydrochloride	Noroxymorphone	Trimethoprim
Ecgonine Methyl Ester	D-Norpropoxyphene	Trimipramine
Erythromycin	Noscapine	DL-Tryptophan
β-Estradiol	Nylidrin	Tyramine
Estrone-3-Sulfate	DL-Octopamine	DL-Tyrosine
Ethyl-p-Aminobenzoate	Oxalic Acid	Uric Acid
Fenoprofen	Oxazepam	Verapamil
Furosemide	Oxolinic Acid	Zomepirac

Non Cross-Reacting Compounds – Methamphetamine 500

Acetaminophen (4-Acetamidophenol)	Erythromycin	DL-Octopamine
	EMDP	Oxalic Acid
Acetophenetidin	β-Estradiol	Oxazepam
N-Acetylprocainamide	Fenoprofen	Oxolinic Acid
Acetylsalicylic Acid	Furosemide	Oxymetazoline
Albumin	Gentisic Acid	Papaverine
Aminopyrine	Hemoglobin	Penicillin-G
D-Amphetamine	Hydralazine	Pentobarbital
Amoxicillin	Hydrochlorothiazide	Perphenazine
Ampicillin	Hydrocodone	Phenelzine
Apomorphine	Hydrocortisone	Phencyclidine
L-Ascorbic Acid	o-Hydroxyhippuric Acid	Prednisone

Aspartame	3-Hydroxytyramine	DL-Propranolol
Atropine	Ibuprofen	D-Propoxyphene
Benzilic Acid	D,L-Isoproterenol	D-Pseudoephedrine
Benzoic Acid	Isoxsuprine	Quinine
Benzoylecgonine	Ketamine	Ranitidine
Bilirubin	Ketoprofen	Salicylic Acid
Cannabidiol	Labetalol	Secobarbital
Chloral Hydrate	Loperamide	Serotonin (5-Hydroxytyramine)
Chloramphenicol	Maprotiline	Sulfamethazine
Chlorothiazide	Meperidine	Sulindac
Chlorpromazine	Meprobamate	Tetrahydrocortisone3 (β-D-Glucuronide)
Chloroquine	Methadone	
Cholesterol	Methoxyphenamine	Tetrahydrozoline
Clonidine	Morphine-3-β-D-Glucuronide	Thiamine
Codeine	Nalidixic acid	Thioridazine
Cortisone	Naloxone	Triamterene
(-)-Cotinine	Naltrexone	DL-Tyrosine
Creatinine	Naproxen	Trifluoperazine
Deoxycorticosterone	Niacinamide	Trimethoprim
Dextromethorphan	Nifedipine	DL-Tryptophan
Diclofenac	Norcodeine	Tyramine
Diflunisal	Norethindrone	Uric Acid
Digoxin	D-Norpropoxyphene	Verapamil
Diphenhydramine	Noscapine	Zomepirac
Ecgonine Methyl Ester	Procaine	

Non Cross-Reacting Compounds - Methylenedioxymethamphetamine

4-Acetamidophenol	L-Epinephrine	Pentobarbital
Acetophenetidin	Erythromycin	Perphenazine
N-Acetylprocainamide	β-Estradiol	Phencyclidine
Acetylsalicylic Acid	Estrone-3-Sulfate	Phenelzine
Aminopyrine	Ethyl-p-Aminobenzoate	Phenobarbital
Amitriptyline	Fenoprofen	Phentermine
Amobarbital	Furosemide	Trans-2-Phenylcyclopropylamine Hydrochloride
Amoxicillin	Gentisic Acid	
Ampicillin	Hemoglobin	L-Phenylephrine
L-Ascorbic Acid	Hydralazine	β-Phenylethylamine
Apomorphine	Hydrochlorothiazide	Phenylpropanolamine
Aspartame	Hydrocodone	Prednisolone
Atropine	Hydrocortisone	Prednisone
Benzilic Acid	o-Hydroxyhippuric Acid	Procaine
Benzoic Acid	3-Hydroxytyramine	Promazine
Benzoylecgonine	Ibuprofen	Promethazine
Bilirubin	Imipramine	DL-Propranolol
(±)-Brompheniramine	Iproniazid	D-Propoxyphene
Buspirone	(±)-Isoproterenol	D-Pseudoephedrine
Caffeine	Isoxsuprine	Quinacrine
Cannabidiol	Ketamine	Quinidine
Cannabinol	Ketoprofen	Ranitidine
Chloral Hydrate	Labetalol	Salicylic Acid
Chloramphenicol	Levorphanol	Secobarbital
Chlordiazepoxide	Loperamide	Serotonin (5-Hydroxytyramine)
Chlorothiazide	Maprotiline	Sulfamethazine
(±)-Chlorpheniramine	Meperidine	Sulindac
Chlorpromazine	Meprobamate	Quinine
Chloroquine Methylphenidate	Methadone	Sustiva
Cholesterol	Morphine-3-β-D-Glucuronide	Temazepam
Clomipramine	Morphine Sulfate	Tetracycline
Clonidine	Nalidixic Acid	Tetrahydrocortisone 3-(β-D-Glucuronide)
Cocaethylene	Naloxone	
Cocaine Hydrochloride	Naltrexone	Tetrahydrozoline
Codeine	Naproxen	Thebaine
Cortisone	Niacinamide	Theophylline
(-)-Cotinine	Nifedipine	Thiamine
Creatinine	Nimesulide	Thioridazine
Deoxycorticosterone	Norcodeine	Tolbutamide
Dextromethorphan	Norethindrone	Trazodone
Diclofenac	D-Norpropoxyphene	Triamterene

Diazepam	Noscapine	DL-Tyrosine
Diflunisal	DL-Octopamine	Trifluoperazine
Digoxin	Oxalic Acid	Trimethoprim
Dicyclomine	Oxazepam	Trimipramine
Diphenhydramine	Oxolinic Acid	Tryptamine
5,5-Diphenylhydantoin	Oxycodone	DL-Tryptophan
Doxylamine	Oxymetazoline	Tyramine
Ecgonine Hydrochloride	Papaverine	Uric Acid
Ecgonine Methyl Ester	Penicillin-G	Verapamil
(IR,2S)-(-)-Ephedrine	Pentazocine Hydrochloride	Zomepirac

Non Cross-Reacting Compounds – Methylphenidate

(-)-Ephedrine	Chlorpheniramine	Oxalic Acid
(+)-Naproxen	Creatine	Penicillin-G
(+/-)-Ephedrine	Dextromethorphan	Pheniramine
4-Dimethyllaminoantiyrine	Dextrorphan tartrate	Phenothiazine
Acetaminophen	Dopamine	Procaine
Acetone	Erythromycin	Protonix
Albumin	Ethanol	Pseudoephedrine
Amitriptyline	Furosemide	Quinidine
Ampicillin	Glucose	Ranitidine
Aspartame	Guaiacol Glyceryl Ether	Sertraline
Aspirin	Hemoglobin	Tyramine
Benzocaine	Ibuprofen	Vitamin C (Ascorbic Acid)
Bilirubin	Imipramine	Trimeprazine
b-Phenylethyl-amine	Isoproterenol	Venlafaxine
Caffeine	Lidocaine	
Chloroquine	Methadone	

Non Cross-Reacting Compounds – Opiates 2000

4-Acetamidophenol	(-)-Ψ-Ephedrine	Oxolinic Acid
Acetophenetidin	Erythromycin	Oxymetazoline
N-Acetylprocainamide	β-Estradiol	Papaverine
Acetylsalicylic Acid	Estrone-3-Sulfate	Penicillin-G
Aminopyrine	Ethyl-p-Aminobenzoate	Pentazocine
Amitriptyline	Fenoprofen	Pentobarbital
Amobarbital	Furosemide	Perphenazine
Amoxicillin	Gentisic Acid	Phencyclidine
Ampicillin	Hemoglobin	Phenelzine
Ascorbic Acid	Hydralazine	Phenobarbital
DL-Amphetamine	Hydrochlorothiazide	Phentermine
Apomorphine	Hydrocortisone	L-Phenylephrine
Aspartame	o-Hydroxyhippuric Acid	β-Phenylethylamine
Atropine	p-Hydroxymethamphetamine	Phenylpropanolamine
Benzilic Acid	3-Hydroxytyramine	Prednisone
Benzoic Acid	Ibuprofen	DL-Propranolol
Benzoylecgonine	Imipramine	D-Propoxyphene
Benzphetamine	Iproniazid	D-Pseudoephedrine
(±)-Bilirubin	Isoproterenol	Quinidine
Brompheniramine	Isoxsuprine	Quinine
Caffeine	Ketamine	Ranitidine
Cannabidiol	Ketoprofen	Salicylic Acid
Chloral Hydrate	Labetalol	Secobarbital
Chloramphenicol	Loperamide	Serotonin (5-Hydroxytyramine)
Chlordiazepoxide	Maprotiline	Sulfamethazine
Chlorothiazide	Meperidine	Sulindac
(±)-Chlorpheniramine	Meprobamate	Temazepam
Chlorpromazine	Methadone	Tetracycline
Chloroquine	Methoxyphenamine	Tetrahydrocortisone 3-(β-D-Glucuronide)
Cholesterol	(+)-3,4-Methylenedioxy-amphetamine	
Clomipramine		Tetrahydrozoline
Clonidine	(+)-3,4-Methylenedioxy-methamphetamine	Thiamine
Cocaine Hydrochloride		Thioridazine
Cortisone	Nalidixic Acid	DL-Tyrosine
(-)-Cotinine	Nalorphine	Tolbutamide
Creatinine	Naloxone	Triamterene
Deoxycorticosterone	Naltrexone	Trifluoperazine
Dextromethorphan	Naproxen	Trimethoprim
Diazepam	Niacinamide	Trimipramine

Diclofenac	Nifedipine	Tryptamine
Diflunisal	Norethindrone	DL-Tryptophan
Digoxin	D-Norpropoxyphene	Tyramine
Diphenhydramine	Noscapine	Uric Acid
Doxylamine	DL-Octopamine	Verapamil
Ecgonine Hydrochloride	Oxalic Acid	Zomepirac
Ecgonine Methyl Ester	Oxazepam	

Non Cross-Reacting Compounds - Opiates 300

Acebutolol	Erythromycin	Oxymetazoline
Acetylpromazine-d6	β-Estradiol	p-Hydroxymethamphetamine
4-Acetamidophenol	Estrone-3-Sulfate	Papaverine
Acetophenetidin	Ethyl-p-Aminobenzoate	Penicillin-G
N-Acetylprocainamide	2-Ethylidene-1,5-Dimethyl-3,3-Diphenylpyrrolidine	Pentazocine
Acetylsalicylic Acid		Pentobarbital
Aminopyrine	Fenoprofen	Perphenazine
Amitriptyline	Furosemide	Phencyclidine
Amobarbital	Gentisic Acid	Phenelzine
Amoxicillin	Hemoglobin	Phenobarbital
Ampicillin	Hydralazine	Phentermine
Ascorbic Acid	Hydrochlorothiazide	L-Phenylephrine
Amphetamine	Hydrocortisone	β-Phenethylamine
L-Amphetamine	o-Hydroxyhippuric Acid	β-Phenylethylamine
Apomorphine	3-Hydroxytyramine	Phenylpropanolamine
Aspartame	Ibuprofen	Prednisolone
Atropine	Imipramine	Prednisone
Benzilic Acid	Iprazid	Promazine
Benzoic Acid	(-)-Isoproterenol	Promethazine
Benzoylecgonine	Isoxsuprine	DL-Propranolol
Benzphetamine	Ketamine	D-Propoxyphene
Bilirubin	Ketoprofen	D-Pseudoephedrine
Brompheniramine	Labetalol	Quinidine
Buprenorphine	Loperamide	Quinine
Butalbital	Maprotiline	Ranitidine
Caffeine	Meprobamate	Salicylic Acid
Chloral Hydrate	Methadone	Secobarbital
Chloramphenicol	Methamphetamine	Serotonin (5-Hydroxytyramine)
Chlordiazepoxide	Methoxyphenamine	Sulfamethazine
Chlorothiazide	(+)-3,4-Methylenedioxyamphetamine	Sulindac
(±)-Chlorpheniramine		Temazepam
Chlorpromazine	Methylenedioxymethamphetamine	Tetracycline
Chloroquine	Methylphenidate	Tetrahydrocortisone 3-(β-D-Glucuronide)
Cholesterol	Nalorphine	
Clomipramine	Naloxone	Tetrahydrozoline
Clonidine	Nalidixic Acid	Thiamine
Cocaine Hydrochloride	Naltrexone	Thioridazine
Cortisone	Naproxen	DL-Thyroxine
(-)-Cotinine	Niacinamide	Tolbutamide
Creatinine	Nifedipine	Triamterene
Deoxycorticosterone	Norcodeine	Trifluoperazine
Dextromethorphan	Norethindrone	Trimethoprim
Diazepam	D-Norpropoxyphene	Trimipramine
Diclofenac	11-nor-Δ^9-THC-9-COOH	Tryptamine
Diflunisal	Nortriptyline	DL-Tryptophan
Digoxin	Noscapine	Tyramine
Diphenhydramine	DL-Octopamine	DL-Tyrosine
Doxylamine	Oxalic Acid	Uric Acid
Ecgonine Hydrochloride	Oxazepam	Verapamil
Ecgonine Methyl Ester	Oxycodone	Zomepirac
(-)-Ψ-Ephedrine	Oxolinic Acid	

Non Cross-Reacting Compounds - Oxycodone

Acetophenetidin	Ethyl-p-Aminobenzoate	Papaverine
Acetylsalicylic Acid	β-Estradiol	Penicillin-G
Aminopyrine	Estrone-3-Sulfate	Perphenazine
Amoxicillin	Erythromycin	Phenelzine
Ampicillin	Fenoprofen	L-Phenylephrine
Apomorphine	Furosemide	β-Phenylethylamine
Aspartame	Gentisic Acid	Phenylpropanolamine

Atropine	Hemoglobin	Prednisone
Benzilic Acid	Hydralazine	Loperamide
Benzoic Acid	Hydrochlorothiazide	Quinine
Benzphetamine	Hydrocortisone	Quinidine
Bilirubin	o-Hydroxyhippuric Acid	Ranitidine
Deoxycorticosterone	3-Hydroxytyramine	Salicylic Acid
Caffeine	Labetalol	Serotonin
Chloral Hydrate	DL-Isoproterenol	Sulfamethazine
Chloramphenicol	Meprobamate	Sulindac
Chlorothiazide	Methoxyphenamine	Tetracycline
DL-Chlorpheniramine	Nalidixic Acid	Tetrahydrocortisone
Chlorpromazine	Naloxone	Morphine-3-β-D-Glucuronide
Chloroquine	Naltrexone	Tetrahydrozoline
Cholesterol	Naproxen	Thiamine
Clonidine	Niacinamide	Thioridazine
L-Cotinine	Nifedipine	DL-Tyrosine
Cortisone	Isoxsuprine	Tolbutamide
Creatinine	DL-Propranolol	Triamterene
D-Pseudoephedrine	Ketoprofen	Trifluoperazine
Dextromethorphan	Norethindrone	Trimethoprim
Diclofenac	D-Norpropoxyphene	Tyramine
Diflunisal	Noscapine	DL-Tryptophan
Digoxin	DL-Octopamine	Urine Acid
Diphenhydramine	Oxalic Acid	Verapamil
L-Ephedrine	Oxolinic Acid	Zomepirac
Ecgonine Methyl Ester	Oxymetazoline	

Non Cross-Reacting Compounds - Phencyclidine

Acetaminophen	Erythromycin	Oxycodone
Acetophenetidin	β-Estradiol	Oxymetazoline
N-Acetylprocainamide	Estrone-3-Sulfate	Papaverine
Acetylsalicylic Acid	Ethyl-p-Aminobenzoate	Penicillin-G
Aminopyrine	Fenoprofen	Pentazocine Hydrochloride
Amitriptyline	Furosemide	Pentobarbital
Amobarbital	Gentisic Acid	Perphenazine
Amoxicillin	Hemoglobin	Phenelzine
Ampicillin	Hydralazine	Phenobarbital
Ascorbic Acid	Hydrochlorothiazide	Phentermine
DL-Amphetamine	Hydrocodone	L-Phenylephrine
Apomorphine Acid	Hydrocortisone	β-Phenylethylamine
Aspartame	o-Hydroxyhippuric	Phenylpropanolamine
Atropine	p-Hydroxymethamphetamine	Prednisolone
Benzilic Acid	3-Hydroxytyramine	Prednisone
Benzoic Acid	Ibuprofen	Procaine
Benzoylecgonine	Imipramine	Promazine
Benzphetamine	Iproniazid	Promethazine
Bilirubin	(±)-Isoproterenol	DL-Propranolol
Brompheniramine	Isoxsuprine	D-Propoxyphene
Caffeine	Ketamine	D-Pseudoephedrine
Cannabidiol	Ketoprofen	Quinidine
Cannabinol	Labetalol	Quinine
Chloral Hydrate	Loperamide	Ranitidine
Chloramphenicol	Maprotiline	Salicylic Acid
Chlordiazepoxide	Meperidine	Secobarbital
Chlorothiazide	Meprobamate	Serotonin (5-Hydroxytyramine)
(±)-Chlorpheniramine	Methadone	Sulfamethazine
Chlorpromazine	Methoxyphenamine	Sulindac
Chloroquine	(+)-3,4-Methylenedioxyamphetamine	Temazepam
Cholesterol		Tetracycline
Clomipramine	(+)-3,4-Methylenedioxymethamphetamine	Tetrahydrocortisone 3-(β-D-Glucuronide)
Clonidine		
Cocaine Hydrochloride	Morphine-3-β-D-Glucuronide	Tetrahydrozoline
Codeine	Morphine Sulfate	Thiamine
Cortisone	Nalidixic Acid	Thioridazine
(-)-Cotinine	Naloxone	DL-Tyrosine
Creatinine	Naltrexone	Tolbutamide
Deoxycorticosterone	Naproxen	Triamterene
Dextromethorphan	Niacinamide	Trifluoperazine
Diazepam	Nifedipine	Trimethoprim

Diclofenac	Norcodeine	Trimipramine
Diflunisal	Norethindrone	Tryptamine
Digoxin	D-Norpropoxyphene	DL-Tryptophan
Diphenhydramine	Noscapine	Tyramine
Doxylamine	DL-Octopamine	Uric Acid
Ecgonine Hydrochloride	Oxalic Acid	Verapamil
Ecgonine Methyl Ester	Oxazepam	Zomepirac
(-)-Ψ-Ephedrine	Oxolinic Acid	

Non Cross-Reacting Compounds – Methylphenidate

(-)-Ephedrine	Chlorpheniramine	Oxalic Acid
(+)-Naproxen	Creatine	Penicillin-G
(+/-)-Ephedrine	Dextromethorphan	Pheniramine
4-Dimethyllaminoantiyrine	Dextrorphan tartrate	Phenothiazine
Acetaminophen	Dopamine	Procaine
Acetone	Erythromycin	Protonix
Albumin	Ethanol	Pseudoephedrine
Amitriptyline	Furosemide	Quinidine
Ampicillin	Glucose	Ranitidine
Aspartame	Guaiacol Glyceryl Ether	Sertraline
Aspirin	Hemoglobin	Tyramine
Benzocaine	Ibuprofen	Vitamin C (Ascorbic Acid)
Bilirubin	Imipramine	Trimeprazine
b-Phenylethyl-amine	Isoproterenol	Venlafaxine
Caffeine	Lidocaine	
Chloroquine	Methadone	

Non Cross-Reacting Compounds - Tricyclic Antidepressants

4-Acetamidophenol	β-Estradiol	Oxycodone
Acetophenetidin	Estrone-3-Sulfate	Oxymetazoline
N-Acetylprocainamide	Ethyl-p-Aminobenzoate	Papaverine
Acetylsalicylic Acid	Fenoprofen	Penicillin-G
Aminopyrine	Furosemide	Pentazocine Hydrochloride
Amobarbital	Gentisic Acid	Pentobarbital
Amoxicillin	Hemoglobin	Perphenazine
Ampicillin	Hydralazine	Phencyclidine
L-Ascorbic Acid	Hydrochlorothiazide	Phenelzine
DL-Amphetamine Sulfate	Hydrocodone	Phenobarbital
Apomorphine	Hydrocortisone	Phentermine
Aspartame	o-Hydroxyhippuric Acid	β-Phenylethylamine
Atropine	p-Hydroxyamphetamine	Trans-2-Phenylcyclopropylamine Hydrochloride
Benzilic Acid	p-Hydroxymethamphetamine	
Benzoic Acid	3-Hydroxytyramine	L-Phenylephrine
Benzoylecgonine	Ibuprofen	Phenylpropanolamine
Benzphetamine	Iproniazid	Prednisolone
Bilirubin	(±)-Isoproterenol	Prednisone
(±)-Brompheniramine	Isoxsuprine	Procaine
Caffeine	Ketamine	DL-Propranolol
Cannabidiol	Ketoprofen	D-Propoxyphene
Cannabinol	Labetalol	D-Pseudoephedrine
Chloral Hydrate	Loperamide	Quinacrine
Chloramphenicol	MDE	Quinidine
Chlorothiazide	Meperidine	Quinine
(±)-Chlorpheniramine	Meprobamate	Ranitidine
Chlorpromazine	Methadone	Salicylic Acid
Chloroquine	L-Methamphetamine	Secobarbital
Cholesterol	Methoxyphenamine	Serotonin
Clonidine	(±)-3,4-Methylenedioxy-amphetamine Hydrochloride	Sulfamethazine
Cocaethylene		Sulindac
Cocaine Hydrochloride	(+)-3,4-Methylenedioxy-methamphetamine Hydrochloride	Tetracycline
Codeine		Tetrahydrocortisone 3-(β-D-Glucuronide)
Cortisone	Morphine-3-β-D-Glucuronide	
(-)-Cotinine	Morphine Sulfate	Tetrahydrozoline
Creatinine	Nalidixic Acid	Thiamine
Deoxycorticosterone	Naloxone	Thioridazine
Dextromethorphan	Naltrexone	DL-Tyrosine
Diclofenac	Naproxen	Tolbutamide
Diflunisal	Niacinamide	Triamterene
Digoxin	Nifedipine	Trifluoperazine
Diphenhydramine	Norcodeine	Trimethoprim

Doxylamine	Norethindrone	Tryptamine
Ecgonine Hydrochloride	D-Norpropoxyphene	DL-Tryptophan
Ecgonine Methyl Ester	Noscapine	Tyramine
Ephedrine	Oxalic Acid	Uric Acid
L-Epinephrine	Oxazepam	Verapamil
Erythromycin	Oxolinic Acid	Zomepirac

The Urine Alcohol Test Strip will react with methyl, ethyl and allyl alcohols. The following substances may interfere with the Urine Alcohol Test Strip, these substances do not normally appear in sufficient quantity in human urine to interfere with the test:

(-)-Ephedrine	Chlorpheniramine	Oxalic Acid
(+)-Naproxen	Creatine	Penicillin-G
(+/-)-Ephedrine	Dextromethorphan	Pheniramine
4-Dimethyllaminoantiyrine	Dextrorphan tartrate	Phenothiazine
Acetaminophen	Dopamine	Procaine
Acetone	Erythromycin	Protonix
Albumin	Ethanol	Pseudoephedrine
Amitriptyline	Furosemide	Quinidine
Ampicillin	Glucose	Ranitidine
Aspartame	Guaiacol Glyceryl Ether	Sertraline
Aspirin	Hemoglobin	Tyramine
Benzocaine	Ibuprofen	Vitamin C (Ascorbic Acid)
Bilirubin	Imipramine	Trimeprazine
B-Phenylethyl-amine	Isoproterenol	Venlafaxine
Caffeine	Lidocaine	
Chloroquine	Methadone	

BIBLIOGRAPHY OF SUGGESTED READING

1. Stewart DJ, Inaba T, Lucassen M, Kalow W. Clin. Pharmacol. Ther. April 1979; 25 ed: 464, 264-8.
2. Ambre J. J. Anal. Toxicol. 1985; 9:241.
3. Hawks RL, CN Chiang. Urine Testing for Drugs of Abuse. National Institute for Drug Abuse (NIDA), Research Monograph 73, 1986.
4. Volpicellim, Joseph R., M.D., Ph.D: *Alcohol Dependence: Diagnosis, Clinical Aspects and Biopsychosocial Causes*, Substance Abuse Library, University of Pennsylvania, 1997.

ADDITIONAL INFORMATION AND REFERENCES

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

National Clearinghouse for Alcohol and Drug Information www.health.org 1-800-729-6686

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

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

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

SYMBOLS

	Do not reuse		Consult instructions for use
	Manufacturer		Contains sufficient <n>tests
REF	Catalog number	LOT	Batch code
	Caution	IVD	In vitro diagnostic medical device
	Use by YYYY-MM-DD		Do not use if package is damaged
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