



One Step Drug Test

Package Insert for Multi Drug Screen Test Dipcard and Cassette

This Instruction Sheet is for testing of any combination of the following drugs: AMP/BAR/BZO/COC/THC/MTD/mAMP/MDMA/MOR/OPI/OXY/PCP/TCA Including Adulterant Tests (Specimen Validity Tests) for: Oxidants (OX), Specific Gravity (S.G) and pH.

A rapid, one step screening test for the simultaneous, qualitative detection of multiple drugs and drug metabolites in human urine.

For Professional and In Vitro Diagnostic Use Only.

INTENDED USE

The **STAT™ One Step Drug Test Dipcard/Cassette** is a lateral flow chromatographic immunoassay for the qualitative detection of multiple drugs and drug metabolites in urine at the following cut-off concentrations:

Test	Calibrator	Cut-off
Amphetamine(AMP)	D-Amphetamine	1,000 ng/mL
Barbiturates(BAR)	Secobarbital	300 ng/mL
Benzodiazepines(BZO)	Oxazepam	300 ng/mL
Cocaine(COC)	Benzoylcegonine	300 ng/mL
Marijuana(THC)	11-nor- Δ^9 -THC-9 COOH	50 ng/mL
Methadone(MTD)	Methadone	300 ng/mL
Methamphetamine(mAMP)	D-Methamphetamine	1,000 ng/mL
Methylenedioxyamphetamine(MDMA)	D,L-Methylenedioxyamphetamine	500 ng/mL
Opiate 300 (OPI 300,MOP,MOR)	Morphine	300 ng/mL
Opiate 2000 (OPI 2000)	Morphine	2,000 ng/mL
Oxycodone (OXY)	Oxycodone	100 ng/mL
Phencyclidine (PCP)	Phencyclidine	25 ng/mL
Tricyclic Antidepressants (TCA)	Nortriptyline	1,000 ng/mL

Configurations of the **STAT™ One Step Drug Test Dipcard/Cassette** can consist of any combination of the above listed drug analytes. This assay provides only a preliminary qualitative test result. Use a more specific alternate quantitative analytical method to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method.¹ Apply clinical and professional judgment to any drug of abuse test result, particularly when preliminary positive results are obtained.

SUMMARY AND EXPLANATION OF THE TEST

The **STAT™ One Step Drug Test Dipcard/Cassette** is a competitive immunoassay utilizing highly specific reactions between antibodies and antigens for the detection of multiple drugs and drug metabolites in human urine.

The **STAT™ One Step Drug Test Dipcard/Cassette** is a rapid urine screening test that utilizes monoclonal antibodies to selectively detect elevated levels of specific drugs in urine without the use of an instrument.

AMPHETAMINE(AMP)

Amphetamine is a Schedule II controlled substance available by prescription (Dexedrine®) and is also available on the illicit market. Amphetamines are a class of potent sympathomimetic agents with therapeutic applications. They are chemically related to the human body's natural catecholamines: epinephrine and norepinephrine. Acute higher doses lead to enhanced stimulation of the central nervous system and induce euphoria, alertness, reduced appetite, and a sense of increased energy and power. Cardiovascular responses to Amphetamines include increased blood pressure and cardiac arrhythmias. More acute responses produce anxiety, paranoia, hallucinations, and psychotic behavior. The effects of Amphetamines generally last 2-4 hours following use, and the drug has a half-life of 4-24 hours in the body. About 30% of Amphetamines are excreted in the urine in unchanged form, with the remainder as

hydroxylated and deaminated derivatives.

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when Amphetamines in urine exceed 1,000 ng/mL. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA).³

BARBITURATES (BAR)

Barbiturates are central nervous system depressants. They are used therapeutically as sedatives, hypnotics, and anticonvulsants. Barbiturates are almost always taken orally as capsules or tablets. The effects resemble those of intoxication with alcohol. Chronic use of barbiturates leads to tolerance and physical dependence. Short acting Barbiturates taken at 400 mg/day for 2-3 months can produce a clinically significant degree of physical dependence. Withdrawal symptoms experienced during periods of drug abstinence can be severe enough to cause death. Only a small amount (less than 5%) of most Barbiturates are excreted unaltered in the urine.

The approximate detection time limits for Barbiturates are:

Short acting (e.g. Secobarbital) 100 mg PO (oral) 4.5 days

Long acting (e.g. Phenobarbital) 400 mg PO (oral) 7 days⁴

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the Barbiturates in urine exceed 300 ng/mL.

BENZODIAZEPINES (BZO)

Benzodiazepines are medications that are frequently prescribed for the symptomatic treatment of anxiety and sleep disorders. They produce their effects via specific receptors involving a neurochemical called gamma aminobutyric acid (GABA). Because they are safer and more effective, Benzodiazepines have replaced barbiturates in the treatment of both anxiety and insomnia. Benzodiazepines are also used as sedatives before some surgical and medical procedures, and for the treatment of seizure disorders and alcohol withdrawal.

Risk of physical dependence increases if Benzodiazepines are taken regularly (e.g., daily) for more than a few months, especially at higher than normal doses. Stopping abruptly can bring on such symptoms as trouble sleeping, gastrointestinal upset, feeling unwell, loss of appetite, sweating, trembling, weakness, anxiety and changes in perception.

Only trace amounts (less than 1%) of most Benzodiazepines are excreted unaltered in the urine; most of the concentration in urine is conjugated drug. The detection period for the Benzodiazepines in the urine is 3-7 days.

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the Benzodiazepines in urine exceed 300 ng/mL.

COCAINE (COC)

Cocaine is a potent central nervous system (CNS) stimulant and a local anesthetic. Initially, it brings about extreme energy and restlessness while gradually resulting in tremors, over-sensitivity and spasms. In large amounts, cocaine causes fever, unresponsiveness, difficulty in breathing and unconsciousness.

Cocaine is often self-administered by nasal inhalation, intravenous injection and free-base smoking. It is excreted in the urine in a short time primarily as Benzoylcegonine.^{1,2}

Benzoylcegonine, a major metabolite of cocaine, has a longer biological half-life (5-8 hours) than cocaine (0.5-1.5 hours), and can generally be detected for 24-48 hours after cocaine exposure.²

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the cocaine metabolite in urine exceeds 300 ng/mL. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA).³

MARIJUANA (THC)

THC (Δ^9 -tetrahydrocannabinol) is the primary active ingredient in cannabis (marijuana). When smoked or orally administered, THC produces euphoric effects. Users have impaired short term memory and slowed learning. They may also experience transient episodes of confusion and anxiety. Long-term, relatively heavy use may be associated with behavioral disorders. The peak effect of marijuana administered by smoking occurs in 20-30 minutes and the duration is 90-120 minutes after one cigarette. Elevated levels of urinary metabolites are found within hours of exposure and remain detectable for 3-10 days after smoking. The main metabolite excreted in the urine is 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid (Δ^9 -THC-COOH).

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the concentration of THC-COOH in urine exceeds 50 ng/mL. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA).³

METHADONE (MTD)

Methadone is a narcotic analgesic prescribed for the management of moderate to severe pain and for the treatment of opiate dependence (heroin, Vicodin, Percocet, Morphine). The pharmacology of Oral Methadone is very different from IV Methadone. Oral Methadone is partially stored in the

liver for later use. IV Methadone acts more like heroin. In most states you must go to a pain clinic or a Methadone maintenance clinic to be prescribed Methadone. Methadone is a long acting pain reliever producing effects that last from twelve to forty-eight hours. Ideally, Methadone frees the client from the pressures of obtaining illegal heroin, from the dangers of injection, and from the emotional roller coaster that most opiates produce. Methadone, if taken for long periods and at large doses, can lead to a very long withdrawal period. The withdrawals from Methadone are more prolonged and troublesome than those provoked by heroin cessation, yet the substitution and phased removal of methadone is an acceptable method of detoxification for patients and therapists.⁴

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the Methadone in urine exceeds 300 ng/mL.

METHAMPHETAMINE (mAMP)

Methamphetamine is an addictive stimulant drug that strongly activates certain systems in the brain. Methamphetamine is closely related chemically to amphetamine, but the central nervous system effects of Methamphetamine are greater. Methamphetamine is made in illegal laboratories and has a high potential for abuse and dependence. The drug can be taken orally, injected, or inhaled. Acute higher doses lead to enhanced stimulation of the central nervous system and induce euphoria, alertness, reduced appetite, and a sense of increased energy and power. Cardiovascular responses to Methamphetamine include increased blood pressure and cardiac arrhythmias. More acute responses produce anxiety, paranoia, hallucinations, psychotic behavior, and eventually, depression and exhaustion. The effects of Methamphetamine generally last 2-4 hours and the drug has a half-life of 9-24 hours in the body. Methamphetamine is excreted in the urine as amphetamine and oxidized and delaminated derivatives. However, 10-20% of Methamphetamine is excreted unchanged. Thus, the presence of the parent compound in the urine indicates Methamphetamine use. Methamphetamine is generally detectable in the urine for 3-5 days, depending on urine pH level.

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the Methamphetamine in urine exceeds 1,000 ng/mL.

METHYLENEDIOXYMETHAMPHETAMINE (MDMA)

Methylenedioxyamphetamine (ecstasy) is a designer drug first synthesized in 1914 by a German drug company for the treatment of obesity.⁸ Those who take the drug frequently report adverse effects, such as increased muscle tension and sweating. MDMA is not clearly a stimulant, although it has, in common with amphetamine drugs, a capacity to increase blood pressure and heart rate. MDMA does produce some perceptual changes in the form of increased sensitivity to light, difficulty in focusing, and blurred vision in some users. Its mechanism of action is thought to be via release of the neurotransmitter serotonin. MDMA may also release dopamine, although the general opinion is that this is a secondary effect of the drug (Nichols and Oberlender, 1990). The most pervasive effect of MDMA, occurring in virtually all people who took a reasonable dose of the drug, was to produce a clenching of the jaws.

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the Methylenedioxyamphetamine in urine exceeds 500 ng/mL.

OPIATE (OPI 300,MOP,MOR)

Opiate refers to any drug that is derived from the opium poppy, including the natural products, morphine and codeine, and the semi-synthetic drugs such as heroin. Opioid is more general, referring to any drug that acts on the opioid receptor.

Opioid analgesics comprise a large group of substances which control pain by depressing the central nervous system. Large doses of morphine can produce higher tolerance levels, physiological dependency in users, and may lead to substance abuse. Morphine is excreted unmetabolized, and is also the major metabolic product of codeine and heroin. Morphine is detectable in the urine for several days after an opiate dose.⁴

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the concentration of opiate exceeds the 300 ng/mL cut-off level.

OPIATE (OPI 2000)

Opiate refers to any drug that is derived from the opium poppy, including the natural products, morphine and codeine, and the semi-synthetic drugs such as heroin. Opioid is more general, referring to any drug that acts on the opioid receptor.

Opioid analgesics comprise a large group of substances which control pain by depressing the central nervous system. Large doses of morphine can produce higher tolerance levels, physiological dependency in users, and may lead to substance abuse. Morphine is excreted unmetabolized, and is also the major metabolic product of codeine and heroin. Morphine is detectable in the urine for several days after an opiate dose.³

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the morphine in urine exceeds 2,000 ng/mL. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA).

OXYCODONE (OXY)

Oxycodone, [4,5-epoxy-14-hydroxy-3-methoxy-17-methyl-morphinan-6-one, dihydrohydroxycodone] is a semi-synthetic opioid agonist derived from thebaine, a constituent of opium. Oxycodone is a Schedule II narcotic analgesic and is widely used in clinical medicine. The pharmacology of oxycodone is similar to that of morphine, in all respects, including its abuse and dependence liabilities. Pharmacological effects include analgesia, euphoria, feelings of relaxation, respiratory depression, constipation, papillary constriction, and cough suppression.

Oxycodone is prescribed for the relief of moderate to high pain under pharmaceutical trade names as OxyContin® (controlled release), OxyIR®, OxyFast®(immediate release formulations), or Percodan® (aspirin) and Percocet® (acetaminophen) that are in combination with other nonnarcotic analgesics. Oxycodone's behavioral effects can last up to 5 hours. The controlled-release product, OxyContin®, has a longer duration of action (8-12 hours).

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the Oxycodone in urine exceeds 100 ng/mL.

PHENCYCLIDINE (PCP)

Phencyclidine, also known as PCP or Angel Dust, is a hallucinogen that was first marketed as a surgical anesthetic in the 1950's. It was removed from the market because patients receiving it became delirious and experienced hallucinations.

Phencyclidine is used in powder, capsule, and tablet form. The powder is either snorted or smoked after mixing it with marijuana or vegetable matter. Phencyclidine is most commonly administered by inhalation but can be used intravenously, intra-nasally, and orally. After low doses, the user thinks and acts swiftly and experiences mood swings from euphoria to depression. Self-injurious behavior is one of the devastating effects of Phencyclidine.

PCP can be found in urine within 4 to 6 hours after use and will remain in urine for 7 to 14 days, depending on factors such as metabolic rate, user's age, weight, activity, and diet. Phencyclidine is excreted in the urine as an unchanged drug (4% to 19%) and conjugated metabolites (25% to 30%).⁶

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the phencyclidine level in urine exceeds 25 ng/mL. This is the suggested screening cut-off for positive specimens set by the Substance Abuse and Mental Health Services Administration (SAMHSA, USA).

TRICYCLIC ANTIDEPRESSANTS (TCA)

TCA (Tricyclic Antidepressants) are commonly used for the treatment of depressive disorders. TCA overdoses can result in profound central nervous system depression, cardiotoxicity and anticholinergic effects. TCA overdose is the most common cause of death from prescription drugs. TCAs are taken orally or sometimes by injection. TCAs are metabolized in the liver. Both TCAs and their metabolites are excreted in urine mostly in the form of metabolites for up to ten days.

The **STAT™ One Step Drug Test Dipcard/Cassette** yields a positive result when the concentration of Tricyclic Antidepressants in urine exceeds 1,000 ng/mL.

ADULTERANT TESTS (SPECIMEN VALIDITY TESTS) SUMMARY

The Adulterant Test Strip contains chemically treated reagent pads. Observation of the color change on the strip compared to the color chart provides a semi-quantitative screen for oxidants, specific gravity and pH in human urine which can help to assess the integrity of the urine specimen.

ADULTERATION

Adulteration is the tampering of a urine specimen with the intention of altering the test results. The use of adulterants in the urine specimen can cause false negative results by either interfering with the test and/or destroying the drugs present in the urine. Dilution may also be used to produce false negative drug test results. To determine certain urinary characteristics such as specific gravity and pH, and to detect the presence of oxidants in urine are considered to be the best ways to test for adulteration or dilution.

- Oxidants (OX): Tests for the presence of oxidizing agents such as bleach and peroxide in the urine.
- Specific Gravity (S.G.): Tests for sample dilution. Normal levels for specific gravity will range from 1.003 to 1.030. Specific gravity levels of less than 1.003 or higher than 1.030 may be an indication of adulteration or specimen dilution.
- pH: tests for the presence of acidic or alkaline adulterants in urine. Normal pH levels should be in the range of 4.0 to 9.0. Values below pH 4.0 or above pH 9.0 may indicate the sample has been altered.

PRINCIPLE

The **STAT™ One Step Drug Test Dipcard/Cassette** is an immunoassay based on the principle of

competitive binding. Drugs which may be present in the urine specimen compete against their respective drug conjugate for binding sites on their specific antibody.

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

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

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

REAGENTS

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 Amphetamine, Cocaine, Methamphetamine, Methylenedioxymethamphetamine, Morphine, THC, Phencyclidine, Benzodiazepines, Methadone, Barbiturates, Tricyclic Antidepressants or Oxycodone.

ADULTERANT TESTS (SPECIMEN VALIDITY TESTS) REAGENTS

Adulteration Pad	Reactive Indicator	Buffers and Non-reactive Ingredients
Oxidants (OX)	0.36%	99.64%
Specific Gravity (S.G.)	0.25%	99.75%
pH	0.06%	99.94%

PRECAUTIONS

- For Professional Use Only.
- For In Vitro Diagnostic Use Only.
- Do not use after the expiration date.
- The test panel should remain in the sealed pouch until use.
- The test is for single use.
- While urine is not classified by OSHA or the CDC as a biological hazard unless visibly contaminated with blood, the use of gloves is recommended to avoid unnecessary contact with the specimen.
- The used test card and urine specimen should be discarded according to federal, state and local regulations.

STORAGE AND STABILITY

Store as packaged in the sealed pouch at 2-30°C (36-86°F). The test is stable through the expiration date printed on the sealed pouch. The test device must remain in the sealed pouch until use. DO NOT FREEZE. Do not use beyond the expiration date.

SPECIMEN COLLECTION AND PREPARATION

Urine Assay

The urine specimen should be collected directly into the test cup. Urine collected at any time of the day may be used. If the urine specimen is collected for later testing, another dry and clean container should be used to collect the specimen.

Specimen Storage

Urine specimens may be stored at 2-8°C (36-46°F) for up to 48 hours prior to testing. For prolonged storage, specimens may be frozen and stored below -20°C. Frozen specimens should be thawed and mixed well before testing.

MATERIALS

Materials Provided

- Test device
- Desiccants
- Dropper (for cassette)
- Package insert
- Color Chart Card for Adulterant Interpretation (when applicable)

Materials Required But Not Provided

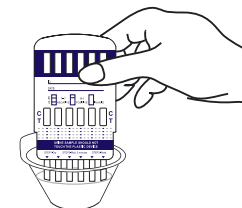
- Specimen collection container
- Disposable gloves
- Timer

DIRECTIONS FOR USE

Allow the test device to come to room temperature [15-30°C (59-86°F)] prior to testing.

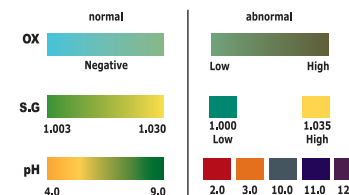
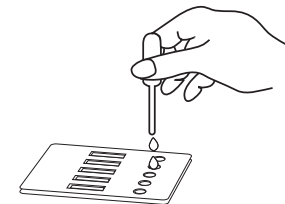
[For Dip Card]

- (1) Remove the test device from its foil wrapper by tearing along the slit (bring the container to the room temperature before opening to avoid condensation of moisture in container). Label the device with patient or control identifications.
- (2) Remove the cap from the test device. Label the device with donor or control identifications.
- (3) Immerse the absorbent tip into the urine sample about 10-15 seconds until the migration of urine fluid is observed in the result windows. Urine sample should not touch the plastic device.
- (4) Replace the cap over the absorbent tip and lay the device flatly on a non-absorptive clean surface. Start the timer.
- (5) Read results at 5 minutes. DO NOT INTERPRET RESULT AFTER 10 MINUTES.



[For Cassette]

- (1) Remove the test device from its foil wrapper by tearing along the slit (bring the container to the room temperature before opening to avoid condensation of moisture in container). Label the device with donor or control identifications.
- (2) Using the specimen dropper, withdraw the urine sample from the specimen collection container and slowly dispense 3-4 drops (approximately 120 L) into the sample wells (S), being careful not to overflow the absorbent pad. Start the timer.
- (3) Read results at 5 minutes. DO NOT INTERPRET RESULT AFTER 10 MINUTES.



Interpret adulterant test strip between 3-5 minutes. Refer to enclosed color chart for an accurate interpretation.

INTERPRETATION OF RESULTS

(Please refer to the previous illustration)

NEGATIVE: Two lines appear. * One color line should be in the control region (C), and another apparent color line adjacent should be in the test region (T). This negative result indicates that the drug concentration is below the detectable level.

*NOTE: The shade of color in the test line region (T) will vary, but it should be considered negative whenever there is even a faint distinguishable color line.

POSITIVE: One color line appears in the control region (C). No line appears in the test region (T). This positive result indicates that the drug concentration is above the detectable level.

INVALID: Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test using a new test device. If the problem persists, discontinue using the lot immediately and contact your supplier.

ADULTERANT TESTS (SPECIMEN VALIDITY TESTS) INTERPRETATION

(Please refer to the color chart)

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

ADULTERANT TESTS (SPECIMEN VALIDITY TESTS) LIMITATIONS

- The adulterant tests included with the product are meant to aid in the determination of abnormal specimens, but may not cover all the possible adulterants.
- Oxidants: Normal human urine should not contain oxidants. The presence of high level of antioxidants in the specimen, such as ascorbic acid, may result in false negative results for the oxidants pad..
- Specific Gravity: Elevated levels of protein in urine may cause abnormally high specific gravity values.

QUALITY CONTROL

A procedural control is included in the test. A color 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.

LIMITATIONS

- The **STAT™ One Step Drug Test Dipcard/Cassette** 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. ^{3,4,7}
- There is a possibility that technical or procedural errors, as well as other interfering substances in the urine specimen may cause erroneous results.
- Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. If adulteration is suspected, the test should be repeated with another urine specimen and a new test device.
- A Positive result does not indicate intoxication of the donor, the concentration of drug in the urine, or the route of drug administration.
- A Negative result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cut-off level of the test.
- Test does not distinguish between drugs of abuse and certain medications.
- A positive test result may be obtained from certain foods or food supplements.

PERFORMANCE CHARACTERISTICS

Accuracy

Testing on accuracy of the test strips was performed on clinical specimens collected for each of the following drug types. All clinical specimens were quantified by GC/MS analysis before testing. The quantity of the following compounds were analyzed by GC/MS and contributed to the total amount of drugs found in the positive specimens tested.

Test	Compounds Contributed to the Totals of GC/MS
AMP	Amphetamine
BAR	Secobarbital
BZO	Oxazepam
COC	Benzoylcegonine
THC	11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid
MTD	Methadone
mAMP	Methamphetamine
MDMA	D,L-Methylenedioxyamphetamines, Methylenedioxyamphetamines
OPI	Morphine, Codeine
OXY	Oxycodone
PCP	Phencyclidine
TCA	Nortriptyline

The following results are tabulated from these clinical studies:

% Agreement with GC/MS (HPLC for TCA)

	AMP	mAMP	OPI 2000	OPI 300	COC	PCP	THC
Positive Agreement	95%	96%	>99%	96%	96%	95%	96%
Negative Agreement	>99%	>99%	97%	>99%	>99%	>99%	>99%
Overall Agreement	98%	98%	98%	98%	98%	95%	98%

	BAR	TCA	MDMA	BZO	MTD	OXY
Positive Agreement	97%	98%	93%	96%	94%	95%
Negative Agreement	98%	>99%	>99%	>99%	98%	>99%
Overall Agreement	98%	99%	96%	98%	96%	98%

Analyte	BAR		MDMA		BZO		MTD		OXY		TCA		THC		PCP		mAMP		OPI300		OPI2000		COC		AMP	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
Negative Samples	0	4	0	4	0	5	0	3	0	4	0	4	0	0	0	1	0	4	0	3	0	17	0	0	0	0
Near Cut-off Negative Samples [between 50% of cut-off and cut-off]	1	37	0	36	0	28	1	44	0	36	0	36	0	15	0	0	0	10	0	11	1	13	0	13	0	19
Near Cut-off Positive Samples [between cut-off and 150% of cut-off]	34	1	33	3	27	2	27	2	34	2	35	1	23	1	7	2	3	1	18	1	3	0	26	1	7	1
Positive Samples (>150% of cut-off)	3	0	4	0	18	0	3	0	4	0	4	0	1	0	28	0	22	0	7	0	6	0	0	0	13	0
Agreement with GC/MS	97%	98%	93%	>99%	96%	>99%	94%	98%	95%	>99%	98%	>99%	96%	>99%	95%	>99%	96%	>99%	96%	>99%	>99%	97%	96%	>99%	95%	>99%

Reproducibility

Reproducibility studies were carried out using commercially available standards. Each standard was diluted in normal, drug-free urine to give the appropriate concentration. Each specimen, at each concentration of analyte, was tested four times daily, in duplicate, for five consecutive days. A total of 40 determinations were made at each concentration. The results are given below:

Amphetamine(AMP)

Amphetamine(AMP) conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
500	40	40 negative	>99%
750	40	40 negative	>99%
1,000	40	40 positive	>99%
1,500	40	40 positive	>99%

Barbiturates(BAR)

Secobarbital conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
150	40	40 negative	>99%
225	40	40 negative	>99%
300	40	40 positive	>99%
450	40	40 positive	>99%

Benzodiazepines(BZO)

Oxazepam conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
150	40	40 negative	>99%
225	40	40 negative	>99%
300	40	40 positive	>99%
450	40	40 positive	>99%

Cocaine(COC)

Benzoylcegonine conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
150	40	40 negative	>99%
225	40	40 negative	>99%
375	40	40 positive	>99%
450	40	40 positive	>99%

Marijuana(THC)

11-nor- Δ^9 -THC-9-COOH conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
25	40	40 negative	>99%
37.5	40	40 negative	>99%
50	40	40 positive	>99%
75	40	40 positive	>99%

Methadone(MTD)

Methadone conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
150	40	40 negative	>99%
225	40	40 negative	>99%
300	40	40 positive	>99%
450	40	40 positive	>99%

Methamphetamine(mAMP)

Methamphetamine conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
500	40	40 negative	>99%
750	40	40 negative	>99%
1,000	40	40 positive	>99%
1,500	40	40 positive	>99%

Methylenedioxyamphetamine(MDMA)

Methylenedioxyamphetamine conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
250	40	40 negative	>99%
375	40	40 negative	>99%
500	40	40 positive	>99%
750	40	40 positive	>99%

Opiate 300 (OPI 300,MOP,MOR)

Morphine conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
150	40	40 negative	>99%
225	40	40 negative	>99%
300	40	40 positive	>99%
375	40	40 positive	>99%

Opiate 2000 (OPI 2000)

Morphine conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
1,000	40	40 negative	>99%
1,500	40	40 negative	>99%
2,000	40	40 positive	>99%
3,000	40	40 positive	>99%

Oxycodone (OXY)

Nortriptyline conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
50	40	40 negative	>99%
75	40	40 negative	>99%
100	40	40 positive	>99%
150	40	40 positive	>99%

Phencyclidine (PCP)

Phencyclidine conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
12.5	40	40 negative	>99%
19	40	40 negative	>99%
25	40	40 positive	>99%
37.5	40	40 positive	>99%

Tricyclic antidepressants (TCA)

Nortriptyline conc.(ng/mL)	Total number of Determinations	Result	Precision
No drug present	40	40 negative	>99%
500	40	40 negative	>99%
750	40	40 negative	>99%
1,000	40	40 positive	>99%
1,500	40	40 positive	>99%

Analytical Sensitivity

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

Drug concentration Cut-off Range	n	AMP		BAR		BZO		COC	
		-	+	-	+	-	+	-	+
0% Cut-off	10	10	0	10	0	10	0	10	0
-50% Cut-off	10	10	0	10	0	10	0	10	0
-25% Cut-off	10	10	0	10	0	10	0	10	0
Cut-off	10	0	10	0	10	0	10	0	10
+25% Cut-off	10	0	0	0	10	0	10	0	10
+50% Cut-off	10	0	10	0	10	0	10	0	10

Drug concentration Cut-off Range	n	THC		MTD		mAMP		MDMA		MOP	
		-	+	-	+	-	+	-	+	-	+
0% Cut-off	10	10	0	10	0	10	0	10	0	10	0
-50% Cut-off	10	10	0	10	0	10	0	10	0	10	0
-25% Cut-off	10	10	0	10	0	10	0	10	0	10	0
Cut-off	10	0	10	0	10	0	10	0	10	0	10
+25% Cut-off	10	0	0	0	10	0	0	0	10	0	10
+50% Cut-off	10	0	10	0	10	0	10	0	10	0	0

Drug concentration Cut-off Range	n	OPI		OXY		PCP		TCA	
		-	+	-	+	-	+	-	+
0% Cut-off	10	10	0	10	0	10	0	10	0
-50% Cut-off	10	10	0	10	0	10	0	10	0
-25% Cut-off	10	10	0	10	0	10	0	10	0
Cut-off	10	0	10	0	10	0	10	0	10
+25% Cut-off	10	0	0	0	10	0	10	0	10
+50% Cut-off	10	0	10	0	10	0	0	0	10

Analytical Specificity

The following table lists the concentration of compounds (ng/mL) that were detected positive in urine by **STAT™ One Step Drug Test Dipcard/Cassette** at a read time of 5 minutes

Drug	Concentration(ng/ml)
AMPHETAMINE (AMP)	ng/mL
d-amphetamine	1,000
D,l-amphetamine	1,000
l-amphetamine	20,000
Phentermine	1,250
(+/-)- Methylendioxyamphetamine (MDA)	1,500
BARBITURATES (BAR)	
Secobarbital	300
Amobarbital	300
Alphenol	150
Aprobarbital	200
Butobarbital	75
Butalbital	2,500
Butethal	100
Cyclopentobarbital	600
Pentobarbital	300
Phenobarbital	100
BENZODIAZEPINE (BZO)	
a-Hydroxyalprazolam	1,260
Alprazolam	200
Bromazepam	1,560

Chlordiazepoxide	1,565
Chlordiazepoxide HCl	780
Clobazam	100
Clonazepam	785
Clorazepate Dipotassium	195
Delorazepam	1,560
Desalkylflurazepam	390
Diazepam	195
Estazolam	2,500
Flunitrazepam	385
(±) Lorazepam	1,560
RS-Lorazepam glucuronide	160
Midazolam	12,500
Nitrazepam	95
Norchlordiazepoxide	200
Nordiazepam	390
Oxazepam	300
Temazepam	100
Triazolam	2,500

COCAINE (COC)	
Benzoyllecgonine	300
Cocaethylene	300
Cocaine	300
Metoclopramide	80,000
Procaine	75,000

MARIJUANA (THC)	
11-Nor- Δ^9 -Tetrahydrocannabinol	50
11-Hydroxy- Δ^9 -Tetrahydrocannabinol	5,000
11-Nor- Δ^9 -Tetrahydrocannabinol	50
11-Nor- Δ^9 -Tetrahydrocannabinol-9 Carboxylic Glucuronide	2,500
Δ^9 -Tetrahydrocannabinol	20,000
Δ^9 -Tetrahydrocannabinol	20,000

METHADONE (MTD)	
Methadone	300
Doxylamine	50,000

METHAMPHETAMINE (mAMP)	
(+/-) 3,4-Methylenedioxy-n-ethylamphetamine(MDEA)	20,000
Procaine (Novocaine)	60,000
Trimethobenzamide	20,000
+/-methamphetamine	1,000
+methamphetamine	500
Ranitidine (Zantac)	50,000
(+/-) 3,4-Methylenedioxyamphetamine (MDMA)	2,500

METHYLENEDIOXYMETHAMPHETAMINE (MDMA)	
D,L-3,4-Methylenedioxyamphetamine (MDMA)	500
3,4-Methylenedioxyamphetamine HCl (MDA)	3,000
3,4-Methylenedioxyethyl-amphetamine (MDEA)	300

OPIATES (OPI 300,MOP,MOR)	
6-acetylmorphine	500
Codeine	100
Eserine (Physootigmine)	15,000
Ethylmorphine	100
Heroin	500
Hydromorphone	2,000
Hydrocodone	1,250
Morphine	300
Morphine-3-glucuronide	75
Oxycodone	75,000
Thebaine	13,000

Drug	Concentration(ng/ml)
OPIATES (OPI 2000)	
6-acetylmorphine	1,000
Codeine	800
Ethylmorphine	400
Heroin	10,000
Hydromorphone	2,000
Hydrocodone	5,000
Morphine	2,000
Morphine-3-glucuronide	1,000
Oxycodone	50,000
Thebaine	26,000
OXYCODONE (OXY)	
Oxycodone	100
Codeine	50,000
Dihydrocodeine	12,500
Ethylmorphine	25,000
Hydrocodone	1,580
Hydromorphone	12,500
Oxymorphone	1,580
Thebaine	50,000
PHENCYCLIDINE (PCP)	
Phencyclidine	25
4-Hydroxy PCP	90
PCP Morpholine	625
TRICYCLIC ANTIDEPRESSANTS (TCA)	
Nortriptyline	1,000
Amitriptyline	1,500
Clomipramine	12,500
Desipramine	200
Doxepine	2,000
Imipramine	400
Maprotiline	2,000
Nordoxepine	1,000
Promazine	1,500
Promethazine	2,500
Trimipramine	3,000

Effect of Urinary Specific Gravity

Fifteen (15) urine samples of normal, high, and low specific gravity ranges (1.005, 1.015, 1.03) were spiked with drugs at 50% below and 50% above cut-off levels respectively. The **STAT™ One Step Drug Test Dipcard/Cassette** was tested in duplicate using ten 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 the Urinary pH

The pH of an aliquoted negative urine pool was adjusted to pH ranges of 4.0 ,4.5, 5.0, 6.0 and 9.0, and spiked with drugs at 50% below and 50% above cut-off levels. The spiked, pH-adjusted urine was tested with the **STAT™ One Step Drug Test Dipcard/Cassette** . The results demonstrate that varying ranges of pH do not interfere with the performance of the test.

Cross-Reactivity

A study was conducted to determine the cross-reactivity of the test with compounds in either drug-free urine or drug positive urine containing Cocaine, Barbiturates, Benzodiazepines, Amphetamine, Methamphetamine, Marijuana, Methadone, MDMA (Ecstasy), Opiates, Oxycodone, Phencyclidine or Tricyclic Antidepressants. The following compounds show no cross-reactivity when tested with The **STAT™ One Step Drug Test Dipcard/Cassette** at concentrations of 100.µg/mL.

Non Cross-Reacting Compounds

Cocaine, Benzodiazepines, Amphetamine, Methamphetamine, Marijuana, Opiates, Oxycodone, Phencyclidine, Barbiturates Non Cross-Reacting Compound

*Parent compound only:

Acebutolol
 Acetaldehyde
 Acetaminophen
 Acetamidophenol(N-Acetyl-p-aminophenol)
 Acetazolamide
 Acetone
 Acetophenetidin
 Acetopromazine
 N-Acetyl-L-cysteine
 N-Acetylprocainamide (Acedainide)
 Acetylsalicylic Acid (Aspirin
 Albumin, standard
 Allobarbitol (Diallylbarbituric Acid)
 Allopurinol (4-Hydroxypyrazole(3,4- pyrimidine)
 Alprenolol
 Amantadine (Adamantan-1-amine)
 Amcinonide
 Amikacin
 Amiloride
 p-Aminobenzoic Acid
 DL-Aminoglutethimide
 Amiodarone
 Amitriptyline
 Ammonium Chloride
 Amoxicillin
 Amphoterin B
 Ampicillin
 Aniline
 Antipyrine
 Apomorphine
 L-Ascorbic Acid
 ASP-PHE-Methyl-Ester (Aspartame)
 D-Aspartic Acid
 DL-Aspartic Acid
 L-Aspartic Acid
 Baclofen
 Barbituric Acid
 Beclomethasone
 Beclomethasone Dipropionate
 Bendroflumethiazide
 Benzidine
 Benzilic Acid diethylaminoethyl ester
 Benzocaine
 Benzoin
 Benzoic Acid
 Benzphetamine
 Benzthiazide
 Benztropine
 Benzyl alcohol
 Benzylamine
 Berberine
 Betamethasone
 Bilirubin
 Brompheniramine
 Bumetanide
 Bupivacaine
 Buprenorphine
 Buspirone
 Butacaine
 Butyrophenone
 Caffeine
 Camphor
 Canrenoic Acid
 Captopril
 Carbamazepine
 Carbamyl-Carboplatin
 Carisoprodol
 Cefaclor
 Cefadroxil
 Cefotaxime
 Cefoxitin
 Ceftriaxone
 Cefuroxime
 Cephalixin
 Cephaloridine
 Cephadrine
 Chloramphenicol
 Chlorcyclizine
 Chloroquine
 Chlorothiazide
 Chlorotrianisene
 Chlorpheniramine

Chlorpromazine
 Chlorpropamide
 Chlorprothixene
 Chlorthalidone
 Chlorzoxazone
 Cholesterol
 Cimetidine
 Cinchonidine
 Cinoxacin
 Clonidine
 Clemastine
 Clenbuterol
 Clindamycin
 Clobetasone Butyrate
 Clomipramine
 Clonidine
 Cloxacillin
 Clozapine
 Colchicine
 Cortisone
 Cortol
 Creatinine
 Cromolyn
 Cyclobenzaprine
 Cyclophosphamide
 Cyclosporin A
 Cyproheptadine
 Dantrolene
 Deferoxamine Mesylate
 Deoxyepinephrine
 Desipramine
 Desmethyldiazepam
 Desoximetasone
 Dexamethasone
 Dextromethorphan
 Diazoxide
 Dichloromethane
 Dichlorphenamide
 Diclofenac
 Dicyclomine
 Dieldrin
 Diflorasone Diacetate
 Diflucortolone pivalate
 Diflunisal
 Digitoxin
 Digoxin
 Isonicotinic Acid
 Dihydroxy mandelic Acid
 Theophylline
 Dimenhydrinate
 Dimercaprol
 Dimethylaminoantipyrin
 Dimethyl Isosorbide
 Dimethyl Sulfoxide
 Diphenhydramine
 Dipyrindamole
 Dipyrone
 Disopyramide
 Dobutamine
 Doxepin
 Doxycycline
 Doxylamine
 Droperidol
 Ecgonine
 Ecgonine Methyl Ester
 Emetine
 Ephedrine
 Epinephrine
 Erythromycin
 Eserine
 Estradiol
 Estril
 Estron
 Glucuronide
 Estrone-3-Sulfate
 Ethacrynic Acid
 Ethambutol
 Ethamivan
 Ethanol, Standard
 Ethopropazine
 Ethosuximide Phenylhalonamide
 Ethylene Glycol
 Ethylenediamine Tetraacetic Acid

Etodolac
 Etoposide
 Famotidine
 Fenfluramine
 Fenopropfen
 Fentanyl
 Ferrous Sulfate
 Flufenamic Acid
 Flunisolide
 Fluphenazine
 Flurandrenolide
 Flurazepam
 Flurbiprofen
 Formaldehyde
 Furosemide
 Gemfibrozil
 Gentamicin Sulfate
 Genticic Acid
 Glucose
 Glybenclamide
 Griseofulvin
 Guaiaacol Glyceryl Ether
 Guanethidine
 Halcinonide
 Haloperidol
 Hemoglobin
 Hexachlorocyclohexane
 Hexachlorophene
 Hexobarbital
 Hippuric Acid
 Histamine
 DL-Homatropine
 Hydrastine
 Hydrochlorothiazide
 Hydrocortisone
 Hydrocarbalamine
 Hydroflumethiazide
 Hydroxyhippuric Acid
 Hydroxyzine
 Ibuprofen
 Indapamide
 Indomethacin
 Diflunisal
 Ipratropium Bromide
 Iproniazid
 Isonicotinic Acid
 Isopropamide
 Isoxsuprine
 Kanamycin
 Ketamine
 Ketoprofen
 Kynurenic Acid
 Labetalol
 Levorphanol
 Lidocaine
 Lisinopril
 Lithium Carbonate
 Loperamide
 Lormetazepam
 Lysergic Acid Diethylamide (LSD)
 Mebendazole
 Meclizine
 Meclofenamic Acid
 Medazepam
 Mefenamic Acid
 Melanin
 Melphalan
 Menthol
 Meperidine
 Mephensin
 Mephentermine
 Meprobamate
 Metaproterenol
 Metaraminol
 Methadone
 Methanol, Absolute
 Methaqualone
 Methazolamide
 Methotrimeprazine
 Methoxamine
 Naphthalene Acetic Acid
 Naproxen
 Methoxyamine

Methoxyphenamine
 Hydroxyprogesterone
 Methylene Blue
 Methylphenidate (Ritalin)
 Methyl Salicylate
 Meticrane
 Metronidazole
 Mianserin
 Milrinone
 Minaprine
 Nabumetone
 Nadolol
 Nafacillin
 Nalbuphine
 Nalidixic Acid
 Nalmefene
 Nalorphine
 Naloxone
 Naltrexone
 Naphazoline-
 Naphthalene Acetic Acid
 Naphthol
 Neomycin Sulfate
 Niacinamide
 Nialamide
 (+/-) Nicotine
 Nicotinic Acid
 Nifedipine
 Nitrofurantoin
 Nomifensine
 Norclomipramine
 Norcocaine
 Norcodeine
 Nordoxepin
 Norethindrone
 Norfloxacin
 Normorphine
 Noscapine
 Nyldrin
 Orphenadrine
 Oxalic Acid
 Oxolinic Acid
 Oxprenolol
 Oxymetazoline
 Oxyphenbutazone
 Oxypranol
 Paclitaxel
 Pancuronium Bromide
 Papaverine
 Pargyline
 Penicillin
 Pentachlorophenol
 Pentoxifylline
 Pentylene tetrazole
 p-Phenylenediamine
 Phenelzine
 Loperamide
 Pheniramine
 Phenol
 Phenolphthalien
 Phenothiazine
 Phenoxymethyl
 Penicillinic acid (Penicillin V)
 Phentolamine
 Phenylbutazone
 Phenylethylamine
 Phenylpropanolamine
 Phenyltoloxamine
 Picrotoxin
 Pilocarpine
 Pimozide
 Pinacidil
 Pindolol
 Pipecolic Acid
 Pipedemic Acid
 Piroxicam
 Potassium Chloride
 Potassium Iodide
 Prazepam
 Prazosin
 Prednisone

Prilocaine
 Primaquine
 Primidone
 Proadifen
 Probenecid
 Procainamide
 Prochlorperazine
 Procyclidine
 Promazine
 Promethazine
 Propionylpromazine
 Protriptyline
 Pseudoephedrine
 Pyridine-2-Aldoxime
 Pyridoxine
 Pyrilamine
 Quinidine
 Quinine
 Quinolinic Acid
 Ranitidine
 Rescinnamine
 Reserpine
 Riboflavin
 Ritodrine
 Salbutamol (Albuterol)
 Salicylic Acid
 Sodium Chloride
 Sodium Formate
 Sulfamethazine
 Sulfamethoxazole
 Sulfanilamide
 Sulfathiazole
 Sulfisoxazole
 Sulindac
 Talbutal
 Tannic Acid
 Terbutaline
 Terfenadine
 Tetracycline
 Theobromine
 Theophylline
 Thiamine
 Thioridazine
 Tobramycin
 Tolazamide
 Tolbutamide
 Tolmetin
 Toluene
 Trazodone
 Triamcinolone
 Triamterene
 Trichlormethiazide
 Trichloroacetic acid
 Trifluoperazine
 Triflupromazine
 Trimethoprim
 Trimipramine
 Triprolidine
 Tropic Acid
 Tropine
 Tryptamine
 Tyramine
 Urea (Carbamide)
 Uric Acid
 Vancomycin
 Vincamine
 Xylometazoline
 Yohimbine
 Zearalenone
 Zomepirac
 Zopiclone

Non Cross-Reacting Compound of Methadone
 *Parent compound only:

Acebutolol
 Acetaldehyde
 Acetaminophen Acetazolamide

Acetone
 Acetophenetidin
 N-Acetylprocainamide (Acedainide)
 Acetylsalicylic Acid (Aspirin)
 Aminopyrine
 Amitriptyline
 Ammonium Chloride
 Amobarbital
 Amoxicillin
 Amphotericin B
 Ampicillin
 Aniline
 Antipyrine
 DL-Amphetamine sulfate
 DL-Aspartic Acid
 L-Aspartic Acid
 Apomorphine
 Aprobarbital
 Aspartame
 Atropine
 Barbituric Acid
 Benzidine
 Benziic Acid Benzocaine
 Benzoic Acid
 Benzoylcegonine
 Benzphetamine
 Benzthiazide
 Bilirubin
 Bisacodyl
 Bromazepam
 2-Bromo-a -ergocryptine
 Brompheniramine
 Caffeine
 Cannabidiol
 Cannabino
 Chloramphenicol
 Chlorcyclizine
 Chlordiazepoxide
 Chloroquine
 Chlorothiazide
 Chlorotrianisene
 Chlorpheniramine
 Chlorpromazine
 Dimercaprol
 Dimethylaminoantipyrin
 Dimethyl Isosorbide
 Dimethyl Sulfoxide
 Disopyramide
 Dobutamine
 Doxepin
 Doxycycline
 Ecgonine
 Ecgonine Methyl Ester
 Emetine
 Ephedrine
 Epinephrine
 Erythromycin
 Estriol
 Estrone
 Ethyl-p-aminobenzoate
 Etodolac
 Etoposide
 Famotidine
 Fenfluramine
 Ferrous Sulfate
 Flufenamic Acid
 Flunisolide
 Formaldehyde
 Furosemide
 Gemfibrozil
 Gentamicin Sulfate
 Gentisic Acid
 Glucose
 Hemoglobin
 Hydralazine
 Hydrastine
 Hydrochlorothiazide
 Hydrocodone
 Hydrocortisone
 Hydrocarbalamine
 Hydroflumethiazide

Hydroxyhippuric Acid
 p-Hydroxyamphetamine
 Hydroxyzine
 Ibuprofen
 Imipramine
 Indapamide
 Indomethacin
 Ipratropium Bromide
 Iproniazid
 Isonicotinic Acid
 Isopropamide
 Isoxsuprine
 Kanamycin
 Ketamine
 Ketoprofen
 Kynurenic Acid
 Labetalol
 Levorphanol
 Loperamide
 Meperidine
 Mephentermine
 Methoxyphenamine
 Hydroxyprogesterone
 Methylphenidate (Ritalin)
 Methyl Salicylate
 Nabumetone
 Nadolol
 Nafcillin
 Nalidixic Acid
 Nalmefene
 (+/-) Nicotine
 Nicotinic Acid
 Nifedipine
 Nitrazepam
 Noscapine
 Oxycodone
 Oxymetazoline
 Oxyphenbutazone
 Oxypurinol
 Paclitaxel
 Pancuronium Bromide
 Papaverine
 Pargyline
 Penicillin
 Pentachlorophenol
 Pentobarbital
 Pentoxifylline
 Pentylene-tetrazole
 p-Phenylenediamine
 Phenelzine
 Phenformin
 Pheniramine
 Phenobarbital
 Phenol
 Phenolphthalien
 Phenothiazine
 Phenoxymethyl
 Penicillinic acid (Penicillin V)
 Phentolamine
 Phenylbutazone
 Phenylethylamine
 Phenylpropanolamine
 Phenyltoloxamine
 Picrotoxin
 Pilocarpine
 Pimozide
 Pinacidil
 Pindolol
 Pilocolic Acid
 Pipepemic Acid
 Piroxicam
 Potassium Chloride
 Potassium Iodide
 Prazepam
 Prazosin
 Prednisone
 Prilocaine
 Primaquine
 Primidone
 Proadifen

Probenecid
 Procainamide
 Prochlorperazine
 Procyclidine
 Promazine
 Promethazine
 Propionylpromazine
 Protriptyline
 Pseudoephedrine
 Pyridine-2-Aldoxime
 Pyridoxine
 Pyrilamine
 Quinidine
 Quinine
 Quinolinic Acid
 Oxazepam
 Ranitidine
 Rescinnamine
 Reserpine
 Riboflavin
 Ritodrine
 Salbutamol (Albuterol)
 Salicylic Acid
 Secobarbital
 Sodium Chloride
 Sodium Formate
 Sulfamethazine
 Sulfamethoxazole
 Sulfanilamide
 Sulfathiazole
 Sulfisoxazole
 Sulindac
 Talbutal
 Tamoxifen
 Tannic Acid
 Tenoxicam
 Terbutaline
 Terfenadine
 Tetracycline
 Tetraethylthiuram
 Tetrahydrozoline
 Theobromine
 Theophylline
 Thiamine
 Thioridazine
 Tobramycin
 Tolazamide
 Tolbutamide
 Tolmetin
 Toluene
 Trazodone
 Triamcinolone
 Triamterene
 Triazolam
 Trichlormethiazide
 Trichloroacetic acid
 Trifluoperazine
 Triflupromazine
 Trimethobenzamide
 Trimethoprim
 Trimipramine
 Tripolidine
 Tropic Acid
 Tropine
 Tryptamine
 Tyramine
 Urea (Carbamide)
 Uric Acid
 Vancomycin
 Vincamine
 Xylometazoline
 Yohimbine
 Zearalenone
 Zomepirac
 Zopiclone

Non Cross-Reacting Compound of Tricyclic Antidepressants

*Parent compound only :

4-Acetamidophenol
 Acetophenetidin
 Prochlorperazine
 N-Acetylprocainamide
 Acetylsalicylic acid
 Aminopyrine
 Amobarbital
 Amoxicillin
 DL-Amphetamine
 Ampicillin
 Ascorbic acid
 Apomorphine
 Aspartame
 Atropine
 Quinidine
 Benziic acid
 Benzoic acid
 Benzoylcegonine
 Benzphetamine
 Bilirubin
 Brompheniramine
 Caffeine
 Cannabidiol
 Cannabinol
 Chloralhydrate
 Chloramphenicol
 Chlordiazepoxide
 Chlorothiazide
 (±) Chlorpheniramine
 Chlorpromazine
 Chlorquine
 Cholesterol
 Clonidine
 Cocaine hydrochloride
 Codeine
 Talbutal
 Cortisone
 (-) Cotinine
 Creatinine
 Deoxycorticosterone
 Dextromethorphan
 Diazepam
 Diclofenac
 Diflunisal
 Digoxin
 Diphenhydramine
 Doxylamine
 Ecgonine hydrochloride
 Ecgonine methylester
 (IR,2S)-(-)-Ephedrine
 L-Ephedrine
 (-) Y Ephedrine
 Erythromycin
 β-Estradiol
 Estrone-3-sulfate
 Ethyl-p-aminobenzoate
 Fenopropfen
 Furosemide
 Gentisic
 Hemoglobin
 Hydralazine
 Hydrochlorothiazide
 Hydrocodone
 Hydrocortisone
 p-Hydroxyamphetamine
 O-Hydroxyhippuric
 p-Hydroxy-methamphetamine
 3-Hydroxytyramine
 Ibuprofen
 Iproniazid
 (-) Isoproterenol
 Isoxsuprine
 Ketamine
 Ketoprofen
 Labetalol
 Levorphanol
 Loperamide
 Meperidine
 Meprobamate
 Methadone
 D-methamphetamine
 Methoxyphenamine

3,4-Methylene-dioxyethylamphetamine
 (+)3,4-Methylene-dioxyamphetamine
 Methylphenidate
 Morphine-3-β-D-glucuronide
 Morphine sulfate
 Nalidixic acid
 Naloxone
 Naltrexone
 Naproxen
 Niacinamide
 Nifedipine
 Norcodein
 Norethindrone
 D-Norpropoxyphene
 Noscapine
 D,L-Octopamine
 Oxalic acid
 Oxazepam
 Oxolinic acid
 Oxycodone
 Oxymetazoline
 Papaverine
 Penicillin-G
 Pentazocine
 Pentobarbital
 Perphenazine
 Phencyclidine
 Phenelzine
 Phenobarbital
 Phentermine
 Trans-2-Phenyl-cyclopropylamine-hydrochloride
 β-Phenylethylamine
 Phenylpropanolamine
 Prednisolone
 Prednisone
 Procaine
 Promethazine
 D,L-Propranolol
 D-Propoxyphene
 D-Pseudoephedrine
 Quinidine
 Quinine
 Ranitidine
 Salicylic acid
 Secobarbital
 Serotonin (5-Hydroxytyramine)
 Sulfamethazine
 Sulindac
 Temazepam
 Tetracycline
 Tetrahydrocortisone, 3
 Acetate
 Tetrahydrocortisone 3 (β-D-glucuronide)
 Tetrahydrozoline
 Thiamine
 Thioridazine
 Tolbutamine
 Triamterene
 Trifluoperazine
 Trimethoprim
 D, L-Tryptophan
 Tyramine
 D, L-Tyrosine
 Uric acid
 Verapamil
 Zomepirac

Non Cross-Reacting Compound of Methylene-dioxy-methamphetamine

*Parent compound only :

acetaldehyde
 acetaminophen
 acetazolamide
 acetone
 albumin
 albuterol
 ammonium

amphotericin B
 ampicillin
 amtriptyline
 apomorphine
 ascorbic acid
 aspartate
 aspirin
 atenolol
 atropine
 beclomethasone
 benzocaine
 benzoic acid
 bilirubin
 bupropion
 buspirone
 caffeine
 captopril
 carbamazepine
 cefaclor
 cimetidine
 chloramphenicol
 chlordiazepoxide
 chloroquine
 chlorothiazide
 chlorpheniramine
 chlorpromazine
 chlorpropamide
 cholesterol
 clindamycin
 clonidine
 clozapine
 colchicine
 cortisone
 creatinine
 deoxycorticosterone
 desipramine
 dextromethorphan
 diazepam
 digoxin
 diphenhydramine
 dipyridamole
 doxycycline
 erythromycin
 estradiol
 estriol
 estrone
 ethanol
 ethylene glycol
 epinephrine
 ferrous sulfate
 furosemide
 gentamycin
 glucose
 haloperidol
 hemoglobin
 hydralazine
 hydrocortisone
 hydroxycarbalamine
 hydroxyprogesterone
 hydroxyzine
 ibuprofen
 indomethacin
 lidocaine
 lisinopril
 lithium
 loperamide
 lorazepam
 LSD
 metronidazole
 naproxen
 niacinamide
 nicotine
 nifedipine
 nitrofurantoin
 nortriptyline
 ofloxacin
 oxalic acid
 penicillin G
 pentobarbital
 phenobarbital

prednisolone
 prednisone
 prochlorperazine
 promethazine
 propoxyphen
 propranolol
 prozac(flouxetin)
 pseudoephedrine
 pyroxidine
 quinidine
 ranitidine
 riboflavin
 salicylic acid
 sildenafil(viagra)
 sodium chloride
 sulfamethoxazole
 sulindac

temazepam
 tetracycline
 tetrahydrocortisone
 theophylline
 thiamine
 thioridazine
 thyroxine
 tobutamide
 trazodone
 trimethoprim
 tryptophan
 tyrosine
 urea
 uric acid
 valproic acid
 verapamil
 Zolof

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