



Oral Cube™

Oral Fluid Drug and Alcohol Screen Device

Package Insert for the AMP/mAMP/COC/OPI/THC/PCP/BZO/OXY/MTD/BAR/BUP/ALCO Test for Oral Fluids
A rapid, screening test for the simultaneous, qualitative detection of Amphetamine, Methamphetamine, Cocaine, Opiates, Marijuana, Phencyclidine, Benzodiazepines, Oxycodone, Methadone, Barbiturates, Buprenorphine, Alcohol and their metabolites in human oral fluid.

For Forensic Use Only

INTENDED USE

The **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** for AMP/mAMP/COC/OPI/THC/PCP/BZO/OXY/MTD/BAR/BUP/ALCO is a lateral flow chromatographic immunoassay for the qualitative detection of Amphetamine, Methamphetamine, Cocaine, Opiates, Marijuana, Phencyclidine, Benzodiazepines, Oxycodone, Methadone, Barbiturates, Buprenorphine, Alcohol and their metabolites in oral fluid at the following cut-off concentrations:

Test	Calibrator	Cut-off
Amphetamine (AMP)	D-Amphetamine	50 ng/mL
Methamphetamine (mAMP)	D-Methamphetamine	50 ng/mL
Cocaine (COC)	Benzoylcegonine	20 ng/mL
Opiates (OPI)	Morphine	40 ng/mL
Marijuana (THC)	11-nor- Δ^9 -THC-9-COOH	12 ng/mL
	Δ^9 -THC	75 ng/mL
Phencyclidine (PCP)	Phencyclidine	10 ng/mL
Benzodiazepines (BZO)	Oxazepam	50 ng/mL
Oxycodone (OXY)	Oxycodone	50 ng/mL
Methadone (MTD)	Methadone	75 ng/mL
Barbiturates (BAR)	Secobarbital	300 ng/mL
Buprenorphine (BUP)	Buprenorphine	10 ng/mL
Alcohol (ALCO)	Alcohol	> 0.02 % B.A.C

This assay provides only a preliminary analytical test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS) and gas chromatography/tandem mass spectrometry (GC/MS/MS) are the preferred confirmatory methods. Professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated.

"For Forensic Use Only" does not apply to any workplace testing or other non law enforcement testing, regardless of whether or not that testing is conducted under other federal agency (e.g., Department of Transportation) authority.

SUMMARY AND EXPLANATION OF THE TEST

The **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** for AMP/mAMP/COC/OPI/THC/PCP/BZO/OXY/MTD/BAR/BUP/ALCO and their metabolites is a rapid, oral fluid screening test that can be performed without the use of an instrument. The test utilizes monoclonal antibodies to selectively detect elevated levels of specific drugs in human oral fluid.

AMPHETAMINE (AMP)

Amphetamine is a sympathomimetic amine with therapeutic indications. The drug is often self-administered by nasal inhalation or oral ingestion. Depending on the route of administration, Amphetamine can be detected in oral fluid as early as 5-10 minutes and up to 72 hours after use¹.

The Amphetamine assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Amphetamine concentration in oral fluid exceeds 50 ng/mL.

METHAMPHETAMINE (mAMP)

Methamphetamine is a potent stimulant chemically related to amphetamine but with greater CNS stimulation properties. The drug is often self-administered by nasal inhalation, smoking or oral ingestion. Depending on the route of administration, methamphetamine can be detected in oral fluid as early as 5-10 minutes and up to 72 hours after use¹.

The Methamphetamine assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Methamphetamine concentration in oral fluid exceeds 50 ng/mL.

COCAINE (COC)

Cocaine is a potent central nervous system (CNS) stimulant and a local anesthetic derived from

the coca plant (erythroxyllum coca). The drug is often self-administered by nasal inhalation, intravenous injection and free-base smoking. Depending on the route of administration, cocaine and metabolites benzoylcegonine and ecgonine methyl ester can be detected in oral fluid as early as 5-10 minutes following use¹. Cocaine and benzoylcegonine can be detected in oral fluid for up to 24 hours after use¹.

The Cocaine assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Benzoylcegonine concentration in oral fluid exceeds 20 ng/mL.

OPIATE (OPI)

The drug class opiates refers to any drug that is derived from the opium poppy, including naturally occurring compounds such as morphine and codeine and semi-synthetic drugs such as heroin. Opiates act to control pain by depressing the central nervous system. The drugs demonstrate addictive properties when used for sustained periods of time; symptoms of withdrawal may include sweating, shaking, nausea and irritability. Opiates can be taken orally or by injection routes including intravenous, intramuscular and subcutaneous; illegal users may also take the intravenously or by nasal inhalation. Using an immunoassay cut-off level of 40 ng/mL, codeine can be detected in the oral fluid within 1 hour following a single oral dose and can remain detectable for 7-21 hours after the dose². 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid, and is a metabolic product of heroin. Morphine is the major metabolic product of codeine and heroin, and is detectable for 24-48 hours after an opiate dose.

The Opiates assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Morphine concentration in oral fluid exceeds 40 ng/mL .

MARIJUANA (THC)

Tetrahydrocannabinol, the active ingredient in the marijuana plant (cannabis sativa), is detectable in saliva shortly after use. The detection of the drug is thought to be primarily due to the direct exposure of the drug to the mouth (oral and smoking administrations) and the subsequent sequestering of the drug in the buccal cavity³. Historical studies have shown a window of detection for THC in saliva of up to 14 hours after drug use³.

The Marijuana assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the 11-nor- Δ^9 -THC-9-COOH concentration in oral fluid exceeds 12 ng/mL.

The Marijuana assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Δ^9 -THC concentration in oral fluid exceeds 75 ng/mL.

PHENCYCLIDINE (PCP)

Phencyclidine, the hallucinogen commonly referred to as Angel Dust, can be detected in saliva as a result of the exchange of the drug between the circulatory system and the oral cavity. In a paired serum and saliva sample collection of 100 patients in an Emergency Department, PCP was detected in the saliva of 79 patients at levels as low as 2 ng/mL and as high as 600 ng/mL⁴.

The Phencyclidine assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Phencyclidine concentration in oral fluid exceeds 10 ng/mL.

BENZODIAZEPINES (BZO)

Benzodiazepines are frequently prescribed sedative and hypnotic drug for the symptomatic treatment of anxiety, insomnia, sleep and seizure disorders. Most Benzodiazepines are extensively metabolized in the liver and excreted in the urine and saliva as metabolites. Chronic abuse may increase the risk of physical dependence and may result in intoxication, drowsiness and muscle relaxation. Oxazepam is the major metabolic product of Benzodiazepines.

The Benzodiazepines assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Oxazepam concentration in oral fluid exceeds 50 ng/mL.

OXYCODONE (OXY)

Oxycodone is a semi-synthetic opioid with a structural similarity to codeine. The drug is manufactured by modifying thebaine, an alkaloid found in the opium poppy. Oxycodone, like all opiate agonists, provides pain relief by acting on opioid receptors in the spinal cord, brain, and possibly directly in the affected tissues. Oxycodone is prescribed for the relief of moderate to high pain under the well-known pharmaceutical trade names of OxyContin®, Tylox®, Percodan® and Percocet®. While Tylox, Percodan and Percocet contain only small doses of oxycodone hydrochloride combined with other analgesics such as acetaminophen or aspirin, OxyContin consists solely of oxycodone hydrochloride in a time-release form.

The Oxycodone assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Oxycodone concentration in oral fluid exceeds 50 ng/mL.

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 therapists⁵.

The Methadone assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Methadone concentration in oral fluid exceeds 75 ng/mL.

BARBITURATES (BAR)

Barbiturates are CNS 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.

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 days⁶

The Barbiturates assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Secobarbital concentration in oral fluid exceeds 300 ng/mL.

BUPRENORPHINE (BUP)

Buprenorphine is a potent analgesic often used in the treatment of opioid addiction. The drug is sold under the trade names Subutex™, Buprenex™, Temgesic™ and Suboxone™, which contain Buprenorphine HCl alone or in combination with Naloxone HCl. Therapeutically, Buprenorphine is used as a substitution treatment for opioid addicts. Substitution treatment is a form of medical care offered to opiate addicts (primarily heroin addicts) based on a similar or identical substance to the drug normally used. In substitution therapy, Buprenorphine is as effective as Methadone but demonstrates a lower level of physical dependence.

Substantial abuse of Buprenorphine has also been reported in many countries where various forms of the drug are available. The drug has been diverted from legitimate channels through theft, doctor shopping, and fraudulent prescriptions, and been abused via intravenous, sublingual, intranasal and inhalation routes.

The Buprenorphine assay contained within the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** yields a positive result when the Buprenorphine concentration in oral fluid exceeds 10 ng/mL.

ALCOHOL (ALCO)

Alcohol intoxication can lead to loss of alertness, coma, death and as well as birth defects. The BAC at which a person becomes impaired is variable. The United States Department of Transportation (DOT) has established a BAC of 0.02% (0.02g/dL) as the cut-off level at which an individual is considered positive for the presence of alcohol.

PRINCIPLE

(1) The **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** for AMP/mAMP/COC/OPI/THC/PCP/BZO/OXY/MTD/BAR/BUP is an immunoassay based on the principle of competitive binding. Drugs that may be present in the oral fluid specimen compete against their respective drug conjugate for binding sites on their specific antibody.

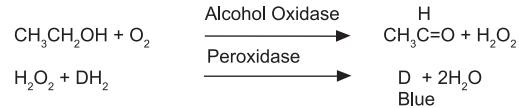
During testing, a portion of the oral fluid specimen migrates upward by capillary action. A drug, if present in the oral fluid specimen below its cut-off concentration, will not saturate the binding sites of its specific antibody. The antibody will then react with the drug-protein conjugate and a visible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

A drug-positive oral fluid specimen will not generate a colored line in the specific test line region of

the strip because of drug competition, while a drug-negative oral fluid 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.

(2) Alcohol Test: A pad coated with enzymes, turns to color shades of green and blue on contact with alcohol in the oral fluids. The alcohol pad employs a solid phase chemistry which uses the following highly specific enzymatic reaction:



During testing, oral fluid is collected on the alcohol pad and saturates the alcohol pad. If no alcohol is present in the oral fluid, the alcohol pad remains colorless (remains white or cream color) because there is no alcohol in the oral fluid to react with enzymes to start the color reaction. If alcohol is present in the oral fluid, the alcohol pad changes to green or blue color because the alcohol reacts with alcohol oxidase to produce aldehyde and peroxide. The peroxide reacts with peroxidase in the presence of hydrogen donor to produce a blue color. Therefore, the presence of green to blue color at the alcohol pad window indicates a presumptive positive result for alcohol.

REAGENT

(1) The test contains membrane strips 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, Methamphetamine, Benzoyllecgonine, Morphine, Marijuana, Phencyclidine, Oxazepam, Oxycodone, Methadone, Secobarbital and Buprenorphine.

(2) The alcohol pad contains Tetramethylbenzidine, Alcohol Oxidase, Peroxidase, Buffer and Stabilizing Proteins.

PRECAUTIONS

- For Forensic Use Only.
- Do not use after the expiration date.
- The Oral fluid drug screen device should remain in the sealed pouch until use.
- Saliva is not classified as biological hazard unless derived from a dental procedure.
- The test device is for single use.
- The used collector and device should be discarded according to federal, state and local regulations.

STORAGE AND STABILITY

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

SPECIMEN COLLECTION AND PREPARATION

The oral fluid specimen should be collected using the collector provided with the kit. Follow the detailed Directions for Use below. No other collection devices should be used with this assay. Oral fluid collected at any time of the day may be used.

MATERIALS

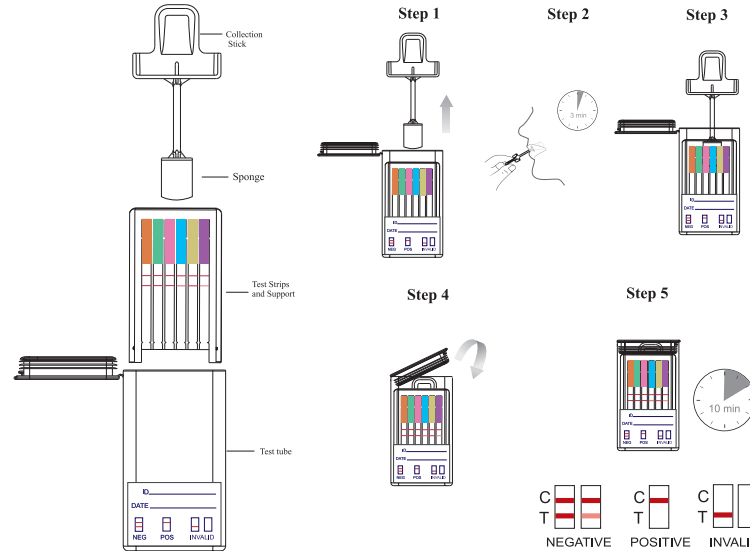
- Materials Provided
- Test devices
 - Package insert
 - Procedure card
- Materials Required But Not Provided
- Timer

DIRECTIONS FOR USE

Allow the test device to reach room temperature [15-30°C (59-86°F)] prior to testing. Do not place anything in the mouth including food, drink, gum, or tobacco products for at least 10 minutes prior to collection of oral fluid specimen.

1. Remove the collection stick and test tube from the sealed pouch.
2. Tear off the package of the collection stick. (Step 1)

3. Insert the sponge end of the collection stick into mouth and soak sponge into saliva for 3 minutes. (Note: Time should be longer for people of little saliva. If the amount of saliva pressed into the test tube is not adequate for testing, collect more with another new collection stick and express the saliva into tube again.) (Step 2)
4. Hold the test tube vertically and place the collection stick with saturated sponge into the test tube. Make sure to fit the groove of collection stick onto the guide rail of test tube and press the collection stick to full extent. (Step 3)
5. Press down the lid to close the test tube. Keep the test tube vertically until you begin to read the test results. (Step 4)
6. Read results of alcohol test at 2 minutes and drug tests at 10 minutes. (If there is a label over reading window, peel off the label to read test results.) **Do not read alcohol test result after 5 minutes and drug tests results after 1 hour.** (Step 5)
7. Send the collector with collected oral fluid to the laboratory for GC/MS confirmation if necessary.



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.

Alcohol Test Results

(Please refer to the alcohol color chart)

Alcohol Negative Result: The alcohol pad shows no color change (remains white or cream colored); it should be interpreted as a negative result (no alcohol present). A result where the outer edges of the alcohol pad produces a slight color but the majority of the pad remains colorless should be repeated to ensure complete saturation of the alcohol pad with oral fluid. If the second result is the same, the results should be interpreted as being negative (no alcohol present).

Alcohol Presumptive Positive Result: The alcohol test produces a color change to green to blue in the presence of salivary alcohol 0.02 % B.A.C. or higher. At higher alcohol concentration near 0.30% B.A.C., the color may change to a dark blue-gray.

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

1. The **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** 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) or gas chromatography/tandem mass spectrometry (GC/MS/MS) is preferred confirmatory methods.
2. A positive test result does not indicate the concentration of drug in the specimen or the route of administration.
3. A negative result may not necessarily indicate a drug-free specimen. Drug may be present in the specimen below the cut-off level of the assay.
4. The test has been developed for testing saliva samples only. No other fluids have been evaluated. Do NOT use this device to test anything but saliva.

PERFORMANCE CHARACTERISTICS

Analytical Sensitivity

A phosphate-buffered saline (PBS) pool was spiked with drugs to target concentrations of ± 50% cut-off and ± 25% cut-off and tested with the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device**. The results are summarized below.

Drug concentration/ Cut-off Range	n	AMP		mAMP		COC		OPI		THC		PCP		BZO		OXY		MTD		BAR		BUP	
		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
+50% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	30	28	2	29	1	30	0	27	3	27	3	30	0	28	2	28	2	29	1	29	1	27	3
Cut-off	30	13	17	16	14	19	11	18	12	14	16	20	10	13	17	12	18	10	20	12	18	16	14
+25% Cut-off	30	4	26	7	23	5	25	3	27	1	29	7	23	4	26	3	27	2	28	3	27	7	23
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30	0	30

For the alcohol test, saliva was obtained by rinsing with positive ethanol control solutions at various B.A.C. (0.02%, 0.08%, 0.15%, 0.30%). Negative saliva was used to test at 0% concentration. For each concentration, a total of 15 tests were performed to validate the test performance. The results of the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** are summarized below:

Test	Total # of Test/ Concentration	B.A.C.									
		0.00%		0.02%		0.08%		0.15%		0.30%	
		-	+	-	+	-	+	-	+	-	+
Alcohol	15	15	0	1	14	0	15	0	15	0	15

Analytical Specificity

The following table lists the concentration of compounds (ng/mL) above which the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** for AMP/mAMP/COC/OPI/THC/PCP/BZO/OXY/MTD/BAR/BUP identified positive results at a read time of 10 minutes.

Drug	Concentration (ng/ml)
AMPHETAMINE (AMP)	
D-Amphetamine	50
DL-Amphetamine	125
β-Phenylethylamine	4,000
(+)-3,4-Methylenedioxyamphetamine	150
L-Amphetamine	4,000
p-Hydroxyamphetamine	800
Tryptamine	1,500
Tyramine	1,000
METHAMPHETAMINE (mAMP)	
D-Methamphetamine	50
(1R,2S) - (-) Ephedrine	400
Fenfluramine	60,000

Methoxyphenamine	25,000
3,4-Methylenedioxymethamphetamine	50
p-Hydroxymethamphetamine	400
L-Phenylephrine	4,000
Procaine	2,000
COCAINE (COC)	
Benzoylcegonine	20
Cocaine HCl	20
Cocaehtylene	25
Ecgonine HCl	1,500
Ecgonine methyl ester	12,500
OPIATES (OPI)	
Morphine	40
Bilirubin	3,500
Codeine	10
Diacetylmorphine (Heroin)	50
Ethylmorphine	24
Hydrocodone	100
Hydromorphone	100
Levorphanol	400
6-Monoacetylmorphine	25
Morphine 3-β-D-Glucuronide	50
Nalorphine	10,000
Normorphine	12,500
Norcodeine	1,500
Oxycodone	25,000
Oxymorphone	25,000
Thebaine	1,500
PHENCYCLIDINE (PCP)	
Phencyclidine	10
Tetrahydrozoline	50,000
BENZODIAZEPINES (BZO)	
a-Hydroxyalprazolam	1,260
Alprazolam	40
Bromazepam	400
Chlordiazepoxide	780
Chlordiazepoxide HCl	390
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	50
Temazepam	20
Triazolam	2,500
OXYCODONE (OXY)	
Oxycodone	50

Codeine	25,000
Dihydrocodeine	6,250
Ethylmorphine	12,500
Hydrocodone	1,000
Hydromorphone	6,250
Oxymorphone	1,000
Thebaine	25,000
MARIJUANA (THC)	
11-nor-Δ ⁹ -THC-9-COOH	12
Cannabinal	3,000
Δ ⁸ -THC	75
Δ ⁹ -THC	75
METHADONE (MTD)	
Methadone	75
Doxylamine	12,500
BARBITURATES (BAR)	
Alphenol	150
Amobarbital	300
Aprobarbital	200
Butabarbital	75
Butalbital	2,500
Butethal	100
Cyclopentobarbital	600
Pentobarbital	300
Phenobarbital	100
Secobarbital	300
BUPRENORPHINE (BUP)	
Buprenorphine	10
Norbuprenorphine	20
Buprenorphine 3-D-glucuronide	15
Norbuprenorphine 3-D-glucuronide	200

Alcohol Test

The alcohol test will react with methyl, ethyl, and allyl alcohols, but it will not react with alcohols having 5 or more carbons, glycine, glycerol, and serine. This property is a result of specificity of the alcohol oxidase enzyme extracted from yeast.

INTERFERENCE

A study was conducted to determine the cross-reactivity of the test with compounds spiked into drug-free PBS stock. The following compounds demonstrated no false positive results on the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** when tested with concentrations up to 100 µg/mL.

Acetaminophen	Benzoic acid	Creatinine
Acetophenetidin	Benzphetamine	Deoxycorticosterone
N-Acetylprocainamide	D/L-Brompheniramine	Dextromethorphan
Acetylsalicylic acid	Caffeine	Diclofenac
Aminopyrine	Cannabidol	Diffunisal
Amoxicillin	Chloralhydrate	Digoxin
Ampicillin	Chloramphenicol	Diphenhydramine
L-Ascorbic acid	Chlorothiazide	L-Y-Ephedrine
Apomorphine	D/L-Chloropheniramine	β-Estradiol
Aspartame	Chlorpromazine	Estrone-3-sulfate
Atropine	Chloroquine	Ethyl-p-aminobenzoate
Cholesterol	Norethindrone	L(-)-Epinephrine
Clonidine	D-Norpropoxyphene	Erythromycin
Cortisone	Noscapine	Fenoprofen
L-Cotinine	D/L-Octopamine	Furosemide

Gentisic acid	Naproxen	Quindine
Hemoglobin	Niacinamide	Ranitidine
Hydralazine	Nifedipine	Salicylic acid
Hydrochlorothiazide	Oxalic acid	Serotonin
Hydrocortisone	Oxolinic acid	Sulfamethazine
O-Hydroxyhippuric acid	Oxymetazoline	Sulindac
p-Hydroxytyramine	Papaverine	Tetracycline
Ibuprofen	Penicillin-G	Tetrahydrocortisone 3-acetate
Iproniazid	Pentazocine hydrochloride	Tetrahydrocortisone 3 (β-D-glucuronide)
D/L-Isoproterenol	Perphenazine	Thiamine
Isoxsuprine	Phenelzine	Thioridazine
Ketamine	Trans-2-phenylcyclopropylamine	D/L-Tyrosine
Ketoprofen	hydrochloride	Tolbutamide
Labetalol	Phenylpropanolamine	Triamterene
Loperamide	Prednisolone	Trifluoperazine
Meperidine	Prednisone	Trimethoprim
Meprobamate	D/L-Propranolol	D/L-Tryptophan
Methylphenidate	D-Propoxyphene	Uric acid
Nalidixic acid	D-Pseudoephedrine	Verapamil
Naloxone	Quinacrine	Zomepirac
Naltrexone	Quinine	

Alcohol Test

The following substances may interfere with the **Oral Cube™ Oral Fluid Drug and Alcohol Screen Device** when using samples other than oral fluid:

(1) Agents which enhance color development: peroxides and strong oxidizers

(2) Agents which inhibit color development:

Reducing agents: such as ascorbic acid, tannic acid, pyrogallol, mercaptanals and tosylates, oxalic acid, uric acid, bilirubin, L-dopa, L-methyldopa, and methampyrone, etc.

The above-named substances do not normally appear in sufficient quantity in oral fluid to interfere with the test. However, care must be taken that they are not introduced into the mouth during the 10 minutes period preceding the test.

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