## **Oral Fluid Drug Screen Test Package Insert**

For Forensic Use Only

## [INTENDED USE]

The Oral Fluid Drug Screen Test for AMP/BAR/BUP/BZO/COC/COT/FYL/KET/MDMA/MET/MTD/OPI/OXY/PCP/PPX/SMA/SMP/THC/TML/ZOP/6-MAM/ALC is a competitive binding, lateral flow chromatographic immunoassay for the qualitative and simultaneous detection of multiple drugs or drug metabolities in human oral fluid at the following cut-off concentrations:

Amphetamine (AMP)         d-A           Barbiturates (BAR)         Sec           Buryenorphine (BUP)         Bug           Benzodiazepines (BZO)         Ox           Cocaine (COC)         Coc           Cocinine (COT)         Cot           Cotinine (COT)         Cot           Fentanyl (FYL)         Fer	Amphetamine Amphetamine Cobarbital prenorphine azepam caine caine tinine tinine tinine tanyl tamine tamine	25 50 50 5 10 15 20 30 50 10
Barbiturates (BAR)         Sec           Buprenorphine (BUP)         Bup           Benzodiazepines (BZO)         Oxa           Cocaine (COC)         Coc           Cotaine (COT)         Cot           Cotinine (COT)         Cot           Cotinine (COT)         Cot           Fentanyl (FYL)         Fer	cobarbital prenorphine azepam caine caine tinine tinine ntanyl tamine tamine	50 5 10 15 20 30 50 10
Buprenorphine (BUP)         Bup           Benzodiazepines (BZO)         Ox           Cocaine (COC)         Coc           Cocaine (COC)         Coc           Cotinine (COT)         Cot           Cotinine (COT)         Cot           Fentanyl (FYL)         Fer	prenorphine azepam caine caine tinine tinine ntanyl tamine tamine	5 10 15 20 30 50 10
Benzodiazepines (BZO)         Oxa           Cocaine (COC)         Coc           Cocaine (COC)         Coc           Cotinine (COT)         Cot           Cotinine (COT)         Cot           Fentanyl (FYL)         Fer	azepam caine caine tinine tinine tlanyl tamine tamine tamine	10 15 20 30 50 10
Cocaine (COC)         Coc           Cocaine (COC)         Coc           Cotinine (COT)         Cot           Cotinine (COT)         Cot           Fentanyl (FYL)         Fer	caine caine tinine tinine ntanyl tamine tamine	15 20 30 50 10 30
Cocaine (COC)         Coc           Cotinine (COT)         Cot           Cotinine (COT)         Cot           Fentanyl (FYL)         Fer	caine tinine tinine ntanyl tamine tamine	20 30 50 10 30
Cotinine (COT)         Cot           Cotinine (COT)         Cot           Fentanyl (FYL)         Fer	tinine tinine ntanyl tamine tamine	30 50 10 30
Cotinine (COT) Cot Fentanyl (FYL) Fer	tinine ntanyl tamine tamine	50 10 30
Fentanyl (FYL) Fer	ntanyl tamine tamine	10 30
	tamine tamine	30
Ketamine (KET) Ket	tamine	
Ketamine (KET) Ket		50
Methylenedioxymethamphetamine (MDMA) d,I-I	Methylenedioxymethamphetamine	50
Methamphetamine (MET) d-M	Methamphetamine	25
Methamphetamine (MET) d-M	Methamphetamine	50
Methadone (MTD) Met	thadone	30
Opiates (OPI) Mor	rphine	30
Opiates (OPI) Mor	rphine	40
Oxycodone (OXY) Oxy	ycodone	20
Phencyclidine (PCP) Phe	encyclidine	10
Propoxyphene (PPX) d-P	Propoxyphene	30
Propoxyphene (PPX) d-P	Propoxyphene	50
Synthetic Marijuana(SMA/K2) JWI	H-018 5-Pentanoic acid metabolite	25
Synthetic Marijuana K2+(AB-Pinaca)(SMP) AB-	-PINACA pentanoic acid metabolite	10
	nor-∆9-THC-9 COOH	12
Marijuana (THC) Δ9-	-THC	50
Tramadol (TML) Cis-	-Tramadol	30
Tramadol (TML) Cis-	-Tramadol	50
Zopiclone (ZOP) Zop	piclone	20
6-Monoacetylmorphine(6-MAM) 6-M	Monoacetylmorphine	3
6-Monoacetylmorphine(6-MAM) 6-M	Monoacetylmorphine	5
6-Monoacetylmorphine(6-MAM) 6-M	Monoacetylmorphine	10
Alcohol (ALC) Alcohol	ohol	0.02%(20mg/dL)

This assay provides only a preliminary analytical test result. A more specific alternate chemical method should be used to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS), gas chromatography/anadem mass spectrometry (GC/MS), liquid chromatography/mass spectrometry (LC/MS) or liquid chromatography/landem mass spectrometry (LC/MS/MS) are the preferred confirmatory methods. Professional judgment should be applied to any drug of abuse screen test result, particularly when the preliminary result is positive.

# [SUMMARY]

The Oral Fluid Drug Screen Test for AMP/BAR/BUP/BZO/COC/COT/FYL/KET/MDMA/MET/MTD/OPI/OXY/PCP/PPX/SMA/SMP/THC/TML/ZOP/6-MAM/ALC or 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 (AMP25)

Amphetamine is a sympathomimetic amine with therapeutic indications, especially for use in treating Attention Deficit Disorders. 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 following use and for as long as 72 hours after use.

The AMP assay contained within the Oral Fluid Drug Screen Test yields a positive result when the amphetamine concentration in oral fluid exceeds 25ng/mL.

#### Amphetamine (AMP50)

Amphetamine is a sympathomimetic amine with therapeutic indications, especially for use in treating Attention Deficit Disorders. 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 following use and for as long as 72 hours after use.

The AMP assay contained within the Oral Fluid Drug Screen Test yields a positive result when the amphetamine concentration in oral fluid exceeds 50ng/mL.

## Barbiturates (BAR50)

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 loterance and physical dependence. Short acting Barbiturates taken at 400 mg/day for 2-3 months produce a clinically significant degree of physical dependence. A study of a single oral dose of one barbiturate: butalbital, phenobarbital or secobarbital showed the drug is detectable in oral fluid with 15-60 minutes of dosing and remained detectable in oral fluid for 52 hours.

The BAR assay contained within the Oral Fluid Drug Screen Test yields a positive result when the Secobarbital concentration in saliva exceeds 50ng/mL.

### **Buprenorphine (BUP5)**

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. The rapeutically, 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 BUP assay contained within the Oral Fluid Drug Screen Test yields a positive result when Buprenorphine in saliva exceeds 5 ng/mL.

#### Benzodiazepines (BZO10)

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, and loss of appetite, sweating, trembling, weakness, anxiety and changes in perception.

The BZO assay contained within the Oral Fluid Drug Screen Test yields a positive result when the Oxazepam concentration in saliva exceeds 10ng/mL.

#### Coccine (COC15

Cocaine is a potent central nervous system (CNS) stimulant and a local anesthetic derived from the coca plant (erythroxylum 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 benzoyleogonine and eogonine methyl ester can be detected in oral fluid as early as 5-10 minutes following use. Cocaine and benzoyleogonine can be detected in oral fluids for up to 24 hours after use. The COC assay contained within the Oral Fluid Drug Screen Test yields a positive result when the cocaine in oral fluid exceeds 15ng/mL.

#### Cocaine (COC20)

Cocaine is a potent central nervous system (CNS) stimulant and a local anesthetic derived from the coca plant (erythroxylum 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 benzoylecgonine and ecgonine methyl ester can be detected in oral fluid as early as 5-10 minutes following use. Cocaine and benzoylecgonine can be detected in oral fluids for up to 24 hours after use. The COC assay contained within the Oral Fluid Drug Screen Test yields a positive result when the cocaine in oral fluid exceeds 20ng/mL.

#### Cotinine (COT 30)

Cotinine is the first-stage metabolite of nicotine, a toxic alkaloid that produces stimulation of the autonomic ganglia and central nervous system when in humans. Nicotine is a drug to which virtually every member of a tobacco-smoking society is exposed whether through direct contact or second-hadiand inhalation. In addition to tobacco, nicotine is also commercially available as the active ingredient in smoking replacement therapies such as nicotine gum, transdermal patches and nasal sprays.

Although nicotine is excreted in saliva, the relatively short half-life of the drug makes if an unreliable maker for tobacco use. Cotinine, however, demonstrates a substantially longer half-life than nicotine bears a high correlation with plasma cotinine levels and has been found to be the best maker for smoking status compared with saliva nicotine measurement, breath carbon monoxide testing and plasma thiocyanate testing.

The window of detection for cotinine in saliva at a cutoff level of 30 ng/mL is expected to be up to 1-2 days after nicotine use.

#### Cotinine (COT50)

Cotinine is the first-stage metabolite of nicotine, a toxic alkaloid that produces stimulation of the autonomic ganglia and central nervous system when in humans. Nicotine is a drug to which virtually every member of a tobacco-smoking society is exposed whether through direct contact or second-had inhalation. In addition to tobacco, nicotine is also commercially available as the active ingredient in smoking replacement therapies such as nicotine gum, transdermal patches and nasal sprays.

Although nicotine is excreted in saliva, the relatively short half-life of the drug makes it an unreliable maker for tobacco use. Cotinine, however, demonstrates a substantially longer half-life than nicotine bears a high correlation with plasma cotinine levels and has been found to be the best maker for smoking status compared with saliva nicotine measurement, breath carbon monoxide testing and plasma thiocyanate testing.

The window of detection for cotinine in saliva at a cutoff level of 50 ng/mL is expected to be up to 1-2 days after nicotine use.

#### entanyl (FYL10)

Fentanyl, belongs to powerful narcotics analgesics, and is a µ special opiates receptor stimulant. Fentanyl is one of the varieties that been listed in management of United Nations "Single Convention of narcotic drug in 1961". Among the opiates agents that under international control, fentanyl is one of the most commonly used to cure moderate to severe pain. After continuous injection of fentanyl, the sufferer will have the performance of protracted opioid abstinence syndrome, such as ataxia and ristability etc, which presents the addiction after taking fentanyl inal long time. Compared with drug addicts of amphetamine, drug addicts who take fentanyl mainly have got the possibility of higher infection rate of HIV, more dangerous injection behavior and more lifelong medication overdose.

The FYL assay contained within the Oral Fluid Drug Screen Test yields a positive result when the fentanyl concentration in saliva exceeds 10ng/mL.

## Ketamine (KET30)

Ketamine is a dissociative anesthetic developed in 1963 to replace PCP(Phencyclidine). While Ketamine is still used in human anesthesia and veterinary medicine, it is becoming increasingly abused as a street drug. Ketamine is molecularly similar to PCP and thus creates similar effects including numbness, loss of coordination, sense of invulnerability, muscle rigidity, aggressive / violent behavior, slurred or blocked speech, exaggerated sense of strength, and a blank stare. There is depression of respiratory function but not of the central nervous system, and cardiovascular function is maintained. The effects of Ketamine generally last 4-6 hours following use.

The KET assay contained within the Oral Fluid Drug Screen Test yields a positive result when the ketamine concentration in saliva exceeds 30ng/mL.

## Ketamine (KET50)

Ketamine is a dissociative anesthetic developed in 1963 to replace PCP(Phencyclidine). While Ketamine is still used in human anesthesia and veterinary medicine, it is becoming increasingly abused as a street drug. Ketamine is molecularly similar to PCP and thus creates similar effects including numbness, loss of coordination, sense of invulnerability, muscle rigidity, aggressive / violent behavior, slurred or blocked speech, exaggerated sense of strength, and a blank stare. There is depression of respiratory function but not of the central nervous system, and cardiovascular function is maintained. The effects of Ketamine generally last 4-6 hours following use.

The KET assay contained within the Oral Fluid Drug Screen Test yields a positive result when the ketamine concentration in saliva exceeds 50ng/mL.

## Methylenedioxymethamphetamine (MDMA50)

Methylenedioxymethamphetamine (ecstasy) is a designer drug first synthesized in 1914 by a German drug company for the treatment of obesity. 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 rin 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 MDMA assay contained within the Oral Fluid Drug Screen Test yields a positive result when the d,l-Methylenedioxymethamphetamine concentration in saliva exceeds 50ng/mL.

#### Methamphetamine (MET25)

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 following use and for as long as 72 hours after use. <sup>1</sup>

The MET assay contained within the Oral Fluid Drug Screen Test yields a positive result when the methamphetamine concentration in oral fluid exceeds 25ng/mL.

## Methamphetamine (MET50)

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 following use and for as long as 72 hours after use.

The MET assay contained within the Oral Fluid Drug Screen Test yields a positive result when the methamphetamine concentration in oral fluid exceeds 50ng/mL.

#### Methadone (MTD30)

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).

Methadone is a long acting pain reliever producing effects that last from 12-48hours. 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. A study 414 specimens collected from 16 donors taking therapeutic methadone at doses between 30-100 mg/day all showed saliva methadone concentrations exceeding 20 ng/mL.<sup>4</sup>

The MTD assay contained within the Oral Fluid Drug Screen Test yields a positive result when the Methadone concentration in saliva exceeds 30ng/mL.

#### Opiates (OPI30)

The drug class opiates refer 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 cutoff 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 dose. The dose of the oral fluid within 1 hour following a single oral dose and can remain detectable for 7-21 hours after the dose. Heroin metabolite 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid than urine.

The OPI assay contained within the Oral Fluid Drug Screen Test yields a positive result when the morphine concentration in oral fluid exceeds 30ng/mL.

#### Opiates (OPI40)

The drug class opiates refer 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 cutoff 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 dose. Heroin metabolite 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid than urine.

The OPI assay contained within the Oral Fluid Drug Screen Test yields a positive result when the morphine concentration in oral fluid exceeds 40ng/mL.

#### Oxycodone (OXY20)

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 opiale 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 OxyContine, 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. Oxycodone is known to metabolize by demethylation into oxymorphone and noroxycodone.

The ÓXY assay contained within the Oral Fluid Drug Screen Test yields a positive result when the Oxycodone concentration in saliva exceeds 20ng/mL.

## Phencyclidine (PCP10)

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/mL.<sup>3</sup>

The PCP assay contained within the Oral Fluid Drug Screen Test yields a positive result when the Phencyclidine concentration in oral fluids exceeds 10ng/mL.

## Propoxyphene (PPX30)

Propoxyphene (PPX) is a narcotic analgesic compound bearing structural similarity to methadone. As an analgesic, propoxyphene can be from 50-75% aspotent as oral codeline. Darvocet<sup>1M</sup>, one of the most common brand names forthe drug, contains 50-100 mg of propoxyphene napsylate and 325-650 mg ofacetaminophen. Peak plasma concentrations of propoxyphene are achievedfrom 1 to 2 hours post dose. In the case of overdose, propoxyphene blood concentrations can reach significantly higher levels. In humans, propoxyphene is metabolized by N-demethylation to yield norpropoxyphene. Norpropoxyphene has a longer half-life (30 to 36 hours) than parent propoxyphene (12 hours). The

Norpropoxyphene has a longer half-life (30 to 36 hours) than parent propoxyphene (6 to 12 hours). The accumulation of norpropoxyphene seen with repeated doses may be largely responsible for resultant toxicity.

The PPX assay contained within the Oral Fluid Drug Screen Test yields a positive result when propoxyphene in saliva exceeds 30ng/mL.

## Propoxyphene (PPX50)

Propoxyphene (PPX) is a narcotic analgesic compound bearing structural similarity to methadone. As an analgesic, propoxyphene can be from 50-75% as potent as oral codeine. Darvocet™, one of the most common brand names for the drug, contains 50-100 mg of propoxyphene napsylate and 325-650 mg of acetaminophen. Peak plasma concentrations of propoxyphene are achieved from 1 to 2 hours post dose. In the case of overdose, propoxyphene blood concentrations can reach significantly higher levels.

In humans, propoxyphene is metabolized by N-demethylation to yield norpropoxyphene. Norpropoxyphene has a longer half-life (30 to 36 hours) than parent propoxyphene (6 to 12 hours). The accumulation of norpropoxyphene seen with repeated doses may be largely responsible for resultant

The PPX assay contained within the Oral Fluid Drug Screen Test yields a positive result when propoxyphene in saliva exceeds 50ng/mL.

### Synthetic Marijuana (SMA25)

Synthetic Marijuana or K2 is a psychoactive herbal and chemical product that, when consumed, mimics the effects of Marijuana. It is best known by the brand names K2 and Spice, both of which have largely become genericized trademarks used to refer to any synthetic Marijuana product. The studies suggesthat synthetic marijuana intoxication is associated with acute psychosis, worsening of previously stablepsychotic disorders, and also may have the ability to trigger a chronic (long-term) psychotic disorderamong vulnerable individuals such as those with a family history of mental illness.

As of March 1, 2011, five cannabinoids, JWH -018, JWH- Ó73, CP- 47, JWH- 200 and cannabicyclohexanol are now illegal in the US because these substances have the potential to be extremely harmfuland, therefore, pose an imminent hazard to the public safety.

The SMA assay contained within the Oral Fluid Drug Screen Test yields a positive result when JWH-018

5-Pentanoic acid metabolite in saliva exceeds 25ng/mL.

#### Synthetic Marijuana K2+(AB-Pinaca)(SMP10)

Synthetic cannabinoids are designer drugs that are structurally different from THC (the active component of cannabis) but act in similar ways to affect the cannabinoid receptor system in the brain. Over the past few years, this class of designer drugs has mainstreamed to become globally popular and increasingly problematic. Synthetic cannabinoids fall into seven major structural groups:

- 1 .Naphthoylindoles (e.g. JWH-018, JWH-073)
- 2. Naphthylmethylindoles (JWH-175, JWH-184, JWH-185, JWH-199) 3. Naphthoylpyrroles (JWH-145, JWH-146, JWH-147, etc)
- Naphthylmethylindenes (JWH-176)
- 5. Phenylacetylindoles (JWH-250, JWH-251, JWH-302)
- 6. Cyclohexylphenols (e.g. CP 47,497)
- 7. Dibenzopyrans (classic cannabinoid structure such as. HU-210 and HU-211)

New structural group: Aminoalkylindazoles (AB-PINACA, AB-FUBINACA, AB-CHMINACA, etc)

In their original, chemical state, synthetic cannabinoids are liquid. The drugs are usually sold combined with dried herbs that emulate marijuana and are intended for smoking although powdered versions are also available. As laws are written to control these drugs with each new synthetic cannabinoid class as they are introduced to the market, the older versions (JWH-018, JWH-073) are seen less frequently than years past. The current trend shows the aminoalkylindazole based drugs such as AB-PINACA, AB-FUBINACA and AB-CHMINACA.

The SMP assay contained within the Oral Fluid Drug Screen Test yields a positive result when the AB-PINACA pentanoic acid metabolite concentration in oral fluid exceeds 10ng/mL.

#### Marijuana (THC12)

THC ( $\Delta 9$ -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.

11-nor-9-tetrahydrocannabinol-9-carboxylic acid, also known as 11-nor-9-THC-9 COOH and THC-COOH, is the main metabolite of THC which is formed in the body after cannabis is consumed, and is present in oral fluid after use.

The THC assay contained within the Oral Fluid Drug Screen Test yields a positive result when the THC-COOH concentration in oral fluid exceeds 12ng/mL.

## Marijuana (THC50)

THC (Δ9-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 parent THC also known as  $\Delta 9$ -THC is present in oral fluid after use.

The THC assay contained within the Oral Fluid Drug Screen Test yields a positive result when the  $\Delta 9$ -

# THC concentration in oral fluid exceeds 50ng/mL. Tramadol (TML30)

Iramadol (IMLSU)
Tramadol (TML) is a quasi-narcotic analgesic used in the treatment of moderate to severe pain. It is a synthetic analog of codeine, but has a low binding affinity to the mu-opioid receptors. Large doses of tramadol can develop tolerance and physiological dependency and lead to its abuse. Tramadol is extensively metabolized after oral administration. The major pathways appear to be N- and O-demethylation, glucoronidation or sulfation in the liver.

The TML assay contained within the Oral Fluid Drug Screen Test yields a positive result when the tramadol concentration in oral fluid exceeds 30ng/mL.

#### Tramadol (TML50)

Tramadol (TML) is a quasi-narcotic analgesic used in the treatment of moderate to severe pain. It isa synthetic analog of codeine, but has a low binding affinity to the mu-opioid receptors. Large doses of tramadol can develop tolerance and physiological dependency and lead to its abuse. Tramadol is extensively metabolized after oral administration. The major pathways appear to be N- and O-demethylation, glucoronidation or sulfation in the liver.

The TML assay contained within the Oral Fluid Drug Screen Test yields a positive result when the tramadol concentration in oral fluid exceeds 50ng/mL.

## Zopiclone (ZOP20)

Zopiclone is a kind of benzodiazepines sedative hypnotics, tell from the chemistry, it belongs to cyclopyrrolidone, it combines with Benzodiazepine receptor in part of GABA receptor, it is absorbed rapidly after oral administration, reaches its peak concentration in plasma 1-1.5 hours later, the bioavailability is close to 80%.45%-80% of zopiclone binds with plasma protein and is widely distributed throughout the body. Its concentration in saliva is higher than that in plasma. Its bitter taste is proportional to the concentration in saliva. Since zopiclone was applied in clinic in 1985, its abuse and addiction tendency have been a controversial topic. Some studies have pointed out that its risk is low or small, but at the same time, in different countries, there are more and more individual reports of abuse, addiction and withdrawal complications.

The ZOP assay contained within the Oral Fluid Drug Screen Test yields a positive result when the zopiclone concentration in oral fluid exceeds 20ng/mL.

#### 6-Monoacetylmorphine (6-MAM 3)

6-MonoacetyImorphine (6-MAM) or 6-AcetyImorphine (6-AM) is one of three active metabolites of heroin (diacetyImorphine), the others being morphine and the much less active3-MonoacetyImorphine (3-MAM). 6-MAM occurs as a metabolite of heroin, which is rapidly created from heroin in the body. Heroin is rapidly metabolized by esterase enzymes in the brain and has an extremely short half-life. It has also relatively weak affinity to µ-opioid receptors because the 3-hydroxy group, essential for effective binding to the receptor, is masked by the acetyl group. Therefore, heroin acts as a pro-drug, serving as a lipophilic transporter for the systemic delivery of morphine, which actively binds with µ-opioid receptors.

The 6-MAM assay contained within the Oral Fluid Drug Screen Test yields a positive result when the 6-Monoacetylmorphine concentration in oral fluid exceeds 3ng/mL.

## 6-Monoacetylmorphine (6-MAM 5)

6-Monoacetylmorphine (6-MAM) or 6-Acetylmorphine (6-AM) is one of three active metabolites of heroin

(diacetylmorphine), the others being morphine and the much less active3-Monoacetylmorphine (3-MAM). 6-MAM occurs as a metabolite of heroin, which is rapidly created from heroin in the body. Heroin is rapidly metabolized by esterase enzymes in the brain and has an extremely short half-life. It has also relatively weak affinity to µ-opioid receptors because the 3-hydroxy group, essential for effective binding to the receptor, is masked by the acetyl group. Therefore, heroin acts as a pro-drug, serving as a lipophilic transporter for the systemic delivery of morphine, which actively binds with µ-opioid receptors. The 6-MAM assay contained within the Oral Fluid Drug Screen Test yields a positive result when the 6-Monoacetylmorphine concentration in oral fluid exceeds 5ng/mL.

#### 6-Monoacetylmorphine (6-MAM 10)

6-MonoacetyImorphine (6-MAM) or 6-AcetyImorphine (6-AM) is one of three active metabolities of heroin (diacetyImorphine), the others being morphine and the much less active3-MonoacetyImorphine (3-MAM). 6-MAM occurs as a metabolite of heroin, which is rapidly created from heroin in the body. Heroin is rapidly metabolized by esterase enzymes in the brain and has an extremely short half-life. It has also relatively weak affinity to μ-opioid receptors because the 3-hydroxy group, essential for effective binding to the receptor, is masked by the acetyl group. Therefore, heroin acts as a pro-drug serving as a lipophilic transporter for the systemic delivery of morphine, which actively binds with μ-opioid receptors. The 6-MAM assay contained within the Oral Fluid Drug Screen Test yields a positive result when the 6-MonoacetyImorphine concentration in oral fluid exceeds 10na/mL.

#### Alcohol (ALC)

Two-thirds of all adults drink alcohol. However, alcohol intoxication can lead to loss of alertness, coma, death and birth defects. The blood alcohol concentration (BAC) at which a person becomes impaired is variable. The United States Department of Transportation (DOT) has established a BAC of 0.02%(20mg/dL) as the cut-off level at which an individual is considered positive for the presence of alcohol. Determination of ethyl alcohol in urine, blood and saliva is commonly used for measuring legal impairment, alcohol poisoning, etc. Gas chromatography techniques and enzymatic methods are commercially available for the determination of ethyl alcohol in human fluids.

The ALC assay contained within the Oral Fluid Drug Screen Test yields a positive result when ethyl alcohol in saliva exceeds 0.02%(20mg/dL).

## [ASSAY PRINCIPLE]

The Oral Fluid Drug Screen Test for AMP/BAR/BUP/BZO/COC/COT/FYL/KET/MDMA/MET/MTD/OPI/OXY/PCP/PPX/SMA/SMP/THC/TML/ZOP/6-MAM 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.

The Alcohol Strip (Saliva) is based on the high specificity of alcohol oxidase (ALOx) /peroxidase act on ethyl alcohol and enzyme substrate such as tetramethylbenzidine (TMB). The principle is showed below:

EtOH + TMB ALOx/Peroxidase CH3CHO + Colored TMB.

### [REAGENTS]

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 hampletamine, Secobarbital, Buprenorphine, Oxazepam, Cocaine, Cotinine, Fentanyl, Ketamine, Methylenedioxymethamphetamine, Methamphetamine, Methadone, Morphine, Oxycodone, Phencyclidine, Propoxyphene, Synthetic Marijuana, AB-Pinaca, THC-COOH, THC, Tramadol, Zopiclone and 6-Monoacetylmorphine respectively.

For alcohol strip, the reagents contain Tetramethylbenzidine (TMB), Alcohol Oxidase, Peroxidase Alcohol Oxidase and other additives.

# [PRECAUTIONS]

- . Do not use after the expiration date.
- The test should remain in the sealed pouch until use.
- . Saliva is not classified as biological hazard unless derived from a dental procedure.

#### The used collector and cup 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 product contains alcohol strip should be stored in the sealed pouch at 2-27°C, if storage temperatures exceeds 27°C, the test performance may degrade. The test is stable through the expiration date printed on the sealed pouch. The test cups 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 cups should be used with this assay. Oral fluid collected at any time of the day may be used.

## [MATERIALS]

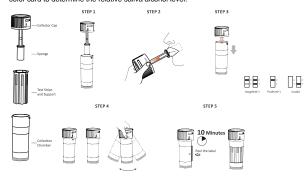
Materials Provided
Oral Fluid Test Oral Fluid Collector Package insert
Device
Procedure Card Color card (for alcohol strip)
Materials Required but Not Provided

## [DIRECTIONS FOR USE]

Allow the test cup, specimen, and/or controls to reach room temperature (15-27°C) prior to testing. Instruct the donor do not place anything in the mouth including food, drink, gum or tobacco products for at least 10 minutes prior to collection.

- Bring the pouch to room temperature before opening it. Remove the test from the sealed pouch and
  use it within one hour of opening.
- 2. Remove the test cup from the sealed pouch and insert the sponge end of the collector in to the mouth. Actively swab the inside of the mouth and tongue to collect oral fluid for approximately 3 minutes until the sponge becomes fully saturated. At the same time, the color of indicator will be changed from colorless to pink. Gentle pressing the sponge between the tongue and teeth will assist saturation. No hard spots should be felt on the sponge when saturated.
- Remove the collector from the mouth. Place saturated oral fluid collector into chamber and press sponge fully against the strainer to collect oral fluid.
   Secure the cap, shake three times, and start the timer.

- See illustration below
- Wait for the colored line(s) to appear. Read results at 10 minutes. Do not read results after 20 minutes.
- For alcohol strip, read the result at two (2) minutes, compare the color of the reaction pad with the color card to determine the relative saliva alcohol level.



## [INTERPRETATION OF RESULTS]

(Please refer to the previous illustration)

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

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

POSITIVE: One colored line appears in the control region (C). No line appears in the test region (Drug/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 panel. If the problem persists, discontinue using the lot immediately and contact the manufacturer. **Alcohol Strip:** 

**Positive:** Alcohol Strip (Saliva) produce a color change based on the presence of saliva alcohol. The color ranges from light blue color (0.02%(20mg/dL)) to dark blue (0.30%).

**NOTE:** Alcohol Strip (Saliva) is very sensitive to the presence of alcohol. A blue color that is lighter than the 0.02% color pad should be interpreted as positive but less than 0.02%(20mg/dL).

Negative: Alcohol Strip (Saliva) shows no color change. It means alcohol is not detected.

Invalid: If the color pad has a blue color before applying saliva sample, do not use the test.

## [QUALITY CONTROL]

A procedural control is included in the test. A colored line appearing in the control region (C) is considered an internal procedural control. It confirms adequate membrane wicking. 

\*\*ELIMITATIONS\*\*\*

\*\*Tubination\*\*

\*\*T

- 1. The Oral Fluid Drug Screen Test provides only a qualitative, preliminary analytical result. A secondary analytical method should be used to obtain a confirmed result. Gas chromatography/mass spectrometry (GC/MS), gas chromatography/landem mass spectrometry (GC/MS/MS), liquid chromatography/mass spectrometry (LC/MS) or liquid chromatography/tandem mass spectrometry (LC/MS/MS) are the preferred confirmatory methods. A positive test result does not indicate the concentration of drug in the specimen or the route of administration.
- A negative result may not necessarily indicate a drug-free specimen. Drug may be present in the specimen below the cutoff level of the assay.
- The saliva sample should be collected 15 minutes after intaking food, drink, or other materials (including smoking), the residual may affect the test results.
- Some household products, such as disinfectant, deodorizers, perfumes, and glass cleaners, contain alcohol, these factors should be excluded before testing.
- Ingestion or general use of over-the-counter medications and products containing alcohol can produce positive results.

# EXPECTED VALUES

This negative result indicates that the drug concentration is below the detectable level. Positive result means the concentration of drug is above the detectable level.

# [PERFORMANCE CHARACTERISTICS]

## Accuracy

Assemble each single test into the cup before testing, and evaluate the cup with approximately 44-280 specimens per drug type previously collected from subjects presenting for Drug Screen Testing which were confirmed by GC/MS. These specimens were randomized and tested using the Oral Fluid Drug Screen Test. Specimens were rated as either positive or negative at 10 minutes. The test results are shown in table below.

Table:	Specimen	Correlation

N	lethod	GC.	/MS	% agreement	% Total agreement		
Oral Fluid	Oral Fluid Drug Screen Test		Positive Negative		with GC/MS		
AMD 25	Positive	56	2	96.6%	07.50/		
AIVIP 25	AMP 25 Negative		100	98.0%	97.5%		
AMP 50	Positive		6	94.7%	94.8%		
AIVIP 50	Negative	5	109	94.8%	94.0%		
BAR50	Positive	80	6	96.4%	05.70/		
DARSU	Negative	3	121	95.3%	95.7%		
BUP5	Positive	86	5	95.6%	95.7%		
BUPS	Negative	4	115	95.8%	95.7%		
B7010	Positive	94	5	94.0%	04.00/		
BZOTO	BZO10 Negative		105	95.5%	94.8%		

COC15	Positive	41	0	>99%	>99%
00015	Negative	0	109	>99%	>55/6
COC20	Positive	38	2	95.0%	96.7%
00020	Negative	3	107	97.3%	30.7 /0
COTOO	Positive	131	2	99.2%	00.70/
COT30	Negative	1	96	98.0%	98.7%
COT 50	Positive	131	2	99.2%	98.7%
CO1 50	Negative	1	96	98.0%	98.7%
FYL10	Positive	53	1	98.1%	96.7%
FILIU	Negative	4	92	95.8%	90.7%
KET 30	Positive	49	3	94.2%	94.5%
KET 30	Negative	5	88	94.6%	34.370
KET 50	Positive	90	6	93.8%	94.8%
KET 50	Negative	5	109	95.6%	94.0%
MDMA5	Positive	96	1	97.0%	00.20/
0	Negative	3	130	99.2%	98.3%
MET 25	Positive	43	2	95.6%	06.49/
IVIL I ZO	Negative	3	92	96.8%	96.4%
MET 50	Positive	126	4	99.2%	09.20/
ıvı⊑ı 50	Negative	1	149	97.4%	98.2%
MTD 00	Positive	116	3	97.5%	07.40/
MTD 30	Negative	3	108	97.3%	97.4%
	Positive	61	3	95.3%	
OPI 30	Negative	2	89	97.8%	96.8%
	Positive	89	7	93.7%	
OPI40	Negative	6	108	93.9%	93.8%
	Positive	91	1	97.8%	
OXY 20	Negative	2	136	99.3%	98.7%
	Positive	107	2	96.4%	
PCP 10	Negative	4	117	98.3%	97.4%
DDV 20	Positive	92	3	95.8%	06.70/
PPX 30	Negative	4	111	97.4%	96.7%
PPX 50	Positive	92	3	95.8%	96.7%
LLV 20	Negative	4	111	97.4%	90.7 %
SMA 25	Positive	52	2	96.3%	96%
OIVIA 20	Negative	4	92	95.8%	90%
SMP 10	Positive	4	0	>99%	>99%
SIVIP 10	Negative	0	40	>99%	>99%
THC12	Positive	75	5	96.2%	96.8%
111012	Negative	3	167	97.1%	96.8%
THC 50	Positive	75	5	96.2%	96.8%
1110 30	Negative	3	167	97.1%	30.0 /0
TML 50	Positive	80	6	93.0%	95.7%
. IVIL OU	Negative	3	121	97.6%	55.1 76
TML 30	Positive	89	0	>99%	>99%
I IVIL 30	Negative	0	121	>99%	>3970
ZOP 20	Positive	36	0	>99%	>99%
ZUP 20	Negative	0	114	>99%	>9970
6-MAM	Positive	36	0	>99%	- 000/
3	Negative	0	128	>99%	>99%
6-MAM	Positive	36	0	>99%	000/
5	Negative	0	128	>99%	>99%
6-MAM	Positive	36	0	>99%	
10	Negative	0	128	>99%	>99%

## Alcohol Strips

Results	>0.02%(Spiked)	0	Total Results
Positive	30	0	30
Negative	1	29	30
S	31	29	60
% Agreement		100%	98%
	Positive Negative	Positive 30 Negative 1	Positive         30         0           Negative         1         29           s         31         29

Analytical Sensitivity

A Phosphate-buffered saline (PBS) pool was spiked with drugs to target concentrations of  $\pm$  50% cut-off,  $\pm$  25% cut-off,  $\pm$ 300% cut-off and tested with the Oral Fluid Drug Screen Test. The results are summarized below.

Drug conc.	_	AM	P25	AMP50		BAR50		BUP5	
(Cut-off range)	n	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	25	5	27	3	26	4	27	3
Cut-off	30	15	15	15	15	19	11	15	15
+25% Cut-off	30	4	26	7	23	6	24	7	23
+50% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-off	30	0	30	0	30	0	30	0	30

Drug conc.		BZ	010	CO	C15	CC	C20	CO	T30
(Cut-off range)	n	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	27	3	26	4	25	5	27	3
Cut-off	30	15	15	15	15	15	15	20	10
+25% Cut-off	30	7	23	5	25	3	27	4	26
+50% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-off	30	0	30	0	30	0	30	0	30
			T50	F1/	L10	1 1/5			T50
Drug conc. (Cut-off range)	n						T30		
		-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	28	2	24	6	8	2	25	5
Cut-off	30	16	14	15	15	5	5	16	14
+25% Cut-off	30	6	24	3	27	1	9	4	26
+50% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-off	30	0	30	0	30	0	30	0	30
	1	MDI	/IA50	МЕ	T25	ME	T50	МТ	D30
Drug conc. (Cut-off range)	n	MIDI		IVIE		-		- IVI I	D30 +
0% Cut-off	30	30	0	30	<b>+</b>	30	<b>+</b>	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	25	5	24	6	28	2	27	3
Cut-off	30	20	10	14	16	16	4	13	17
+25% Cut-off	30	7	23	4	26	6	24	7	23
+50% Cut-off	30	0	30	0	30	0	30	0	30
+30% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-on	30	U	30	U	30	U	30	U	30
Drug conc.		OF	P130	OF	140	0)	(Y20	PC	P10
(Cut-off range)	n	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	24	6	27	3	25	5	26	4
Cut-off	30	14	16	15	15	15	15	14	16
+25% Cut-off	30	4	26	8	22	7	23	5	25
+50% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-off	30	0	30	0	30	0	30	0	30
			V20		VF0	-	1405		D40
Drug conc. (Cut-off range)	n	PP	X30 +	PP.	X50 +	SN	1A25 +	SM -	P10 +
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	25	5	25	5	26	4	27	3
Cut-off	30	15	15	15	15	15	15	15	15
Gut-Oil									_
+25% Cut-off	30	4	26	4	26	4	26	3	27

Drug conc.	n	PPX30		PP:	PPX50		1A25	SMP10	
(Cut-off range)	- "	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	25	5	25	5	26	4	27	3
Cut-off	30	15	15	15	15	15	15	15	15
+25% Cut-off	30	4	26	4	26	4	26	3	27
+50% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-off	30	0	30	0	30	0	30	0	30

Drug conc.	_	n THC12		THC50		TML30		TML50	
(Cut-off range)	, n	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	26	4	27	3	25	5	26	4
Cut-off	30	12	18	12	18	14	16	14	16
+25% Cut-off	30	8	22	5	25	4	26	4	26
+50% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-off	30	0	30	0	30	0	30	0	30

Drug conc.	n	ZOI	20	6-MAM 3		6-MAM 5		6-MAM10	
(Cut-off range)	l "	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	26	4	25	5	25	5	27	3
Cut-off	30	14	16	15	15	14	16	14	16
+25% Cut-off	30	4	26	4	26	4	26	4	26
+50% Cut-off	30	0	30	0	30	0	30	0	30
+300% Cut-off	30	0	30	0	30	0	30	0	30

Analytical Specificity
The following table lists the cutoff concentration of compounds (ng/mL) above which will be detected by the Oral Fluid Drug Screen Test for AMP/BAR/BUP/BZO/COC/COT/FYL/KET/MDMA/MET/MTD/OPI/OXY/PCP/PEX/SMA/SMP/THC/TML/ZOPI6-MAM/ALC at a read time of 10 minutes, respectively.

Compound	ng/mL		ng/mL					
AMPHETAMINE (AMP25)								
D-Amphetamine	25	p-Hydroxyamphetamine	200					

D,L-Amphetamine	500	(+)3,4-Methylenedioxyamphetamine (MDA)	250
L-Amphetamine	35,000	,	
	MPHETAMIN	NE (AMP50) p-Hydroxyamphetamine	1400
D-Amphetamine	50	(+)3,4-Methylenedioxyamphetamine	400 500
D,L-Amphetamine	1,000	(MDA)	500
L-Amphetamine B.	70,000 ARBITURAT	ES(BAR50)	
Amobarbital	250	Pentobarbital	70
Aprobarbital Butabarbital	80 25	Phenobarbital Secobarbital	30 50
Butalbital	500	Seconarbital	30
		HINE(BUP5)	-
Norbuprenorphine Buprenorphine-3-β-D-glucuronide	90 50	Buprenorphine Norbuprenorphine-3-β-D-glucuronide	300
BEI	NZODIAZEP	INES(BZO10)	
Oxazepam Alprazolam	10 100	7-Amino-clonazepam Bromazepam	5,000 10
Chlordiazepoxide	50	Clonazepam	1,000
Desalkylflurazepam	500	Diazepam	50
Estazolam Furosemide	5,000	Flunitrazepam	500 700
Midazolam	1,000	Lorazepam Midazolam Maleate	2,500
Nefopam	1,000	Nitrazepam	25
Norchlordiazepoxide Pheniramine	25 50,000	Oxolinic acid Theophylline	50,000
α -Hydroxyalprazolam	50		00,000
Cocaine HCI	COCAINE	(COC15) EcgonineHCl	45,000
Benzoylecgonine	15 15	Ecgonine methyl ester	75,000
Cocaethylene	550		
Cocaine HCI	20	(COC20) EcgonineHCl	60,000
Benzoylecgonine	20	Ecgonine methyl ester	100,000
Cocaethylene	700	-	
(-)-Cotinine	30	(-)-Nicotine	15,000
	COTININE	(COT 50)	
(-)-Cotinine	50 FENTANYI	(-)-Nicotine	25,000
Fentanyl	10	Norfentanyl	4
Perphenazine	20,000		
Ketamine (KET)	30	Norketamine	400
(+/-)-Chlorpheniramine	50,000	Pantoprazole Sodium	50,000
Levorphanol	50	hydromorphpne	2,500
Meperidine (Pethidine) Naloxone	50,000 10,000	Promethazine d-Pseudoephedrine	50,000
Naltrexone	2,500	Phencyclidine	100,000
EDDP (2-ethylidene-1,5-dimethyl-3,3	5,000	Tetrahydrozoline	5,000
diphenylpyrrolidine ) Normorphine	50,000	Heroin (diacetylmorphine)	50,000
Oxymorphone	1,000	Methamphetamine Hydrochride	50,000
Pheniramine	50,000	R(-)-Methamphetamine	50,000
V-4 (VET)	KETAMINE		Icon
Ketamine (KET) (+/-)-Chlorpheniramine	50 85,000	Norketamine Pantoprazole Sodium	600 85,000
Levorphanol	85	hydromorphpne	4,000
Meperidine (Pethidine)	85,000	Promethazine	85,000
Naloxone Naltrexone	15,000 4,000	d-Pseudoephedrine Phencyclidine	>100,00
EDDP (2-ethylidene-1,5-dimethyl-3,3	-		
	8,500	Tetrahydrozoline	8,500
	0,000		
diphenylpyrrolidine) Normorphine	85,000	Heroin (diacetylmorphine)	85,000
diphenylpyrrolidine ) Normorphine Oxymorphone	85,000 1,500	Methamphetamine Hydrochride	85,000
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine	85,000 1,500 85,000		
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  METHYLENEDI  (±) 3,4-Methylenedioxymethamphetamin	85,000 1,500 85,000 OXYMETHA e HCI (MDM	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50)	85,000 85,000 50
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  METHYLENEDI (±) 3,4-Methylenedioxymethamphetamine (±) 3,4-Methylenedioxyamphetamine HC	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA)	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50)	85,000 85,000 50 50
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  ### METHYLENEDI  (±) 3,4-Methylenedioxymethamphetamine (†) 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine (MET	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA) MDE) HAMPHETA	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A) MINE (MET25)	85,000 85,000 50 50 250
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  METHYLENEDI (±) 3,4-Methylenedioxymethamphetamine HC 3,4-Methylenedioxyamphetamine (hC 3,4-Methylenedioxyethylamphetamine (hC MET d-Methamphetamine	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA) MDE) HAMPHETA 25	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A) MINE (MET25) Procaine	85,000 85,000 50 50 250 12,500
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine METHYLENEDI (±) 3,4-Methylenedioxymethamphetamine HC 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine (h MET d-Methamphetamine 3,4-Methylenedioxymethamphetamine	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA) MDE) HAMPHETA	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A) MINE (MET25)	85,000 85,000 50 50 250
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  ### METHYLENEDI  (±) 3,4-Methylenedioxymethamphetamine (†) 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine (MET	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA) MDE) HAMPHETA 25	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A) MINE (MET25) Procaine	85,000 85,000 50 50 250 12,500
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  ### METHYLENEDI  ### (±) 3,4-Methylenedioxymethamphetamin  ### (±) 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine HC 3,4-Methylenedioxyethylamphetamine HC d-Methamphetamine  #### MET  ### d-Methylenedioxymethamphetamine  #### (MDMA)  ### (MDMA)  ### (1R,2S) - (-) Ephedrine	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA) MDE) HAMPHETA 25 250	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A)  MINE (MET25) Procaine L-Phenylephrine Ephedrine	85,000 85,000 50 50 250 12,500 1,250
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  METHYLENEDI (±) 3,4-Methylenedioxymethamphetamine (±) 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine (hC MET d-Methamphetamine 3,4-Methylenedioxymethamphetamine (MDMA) (1R,2S) - (-) Ephedrine  MET d-Methamphetamine	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA) MDE) HAMPHETA 25 250	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A)  MINE (MET25) Procaine L-Phenylephrine	85,000 85,000 50 50 250 12,500 1,250
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  ### METHYLENEDI  ### (±) 3,4-Methylenedioxymethamphetamine (±) 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine (HC)	85,000 1,500 85,000 <b>OXYMETHA</b> e HCI (MDM I (MDA) MDE) HAMPHETA 25 250 200	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A)  MINE (MET25) Procaine L-Phenylephrine Ephedrine MINE (MET50)	85,000 85,000 50 50 250 12,500 1,250 500
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  METHYLENEDI (±) 3,4-Methylenedioxymethamphetamine (±) 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine (hC MET d-Methamphetamine 3,4-Methylenedioxymethamphetamine (MDMA) (1R,2S) - (-) Ephedrine  MET d-Methamphetamine	85,000 1,500 85,000 OXYMETHA 6 HCI (MDM I (MDA) MDE) HAMPHETA 25 250 200 HAMPHETA 50	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A)  MINE (MET25) Procaine L-Phenylephrine Ephedrine MINE (MET50) Procaine	85,000 85,000 50 50 250 12,500 1,250 500
diphenylpyrrolidine ) Normorphine Oxymorphone Pheniramine  ### METHYLENEDI  ### A-Methylenedioxymethamphetamine  ### A-Methylenedioxyamphetamine HC 3,4-Methylenedioxyamphetamine HC 3,4-Methylenedioxyethylamphetamine (MET  ### MET  ### ME	85,000 1,500 85,000 OXYMETHA e HCI (MDM I (MDA) 40E) HAMPHETA 25 250 200 HAMPHETA 50 500	Methamphetamine Hydrochride R(-)-Methamphetamine MPHETAMINE(MDMA50) A)  MINE (MET25) Procaine L-Phenylephrine Ephedrine MINE (MET50) Procaine L-Phenylephrine Ephedrine Ephedrine	85,000 85,000 50 50 250 12,500 1,250 500 25,000

	OPIATES	(OBI20)	
Morphine	30	Morphine 3-β-D-Glucuronide	50
Codeine	40	Normorphine	52.500
Ethylmorphine	40	Nalorphine	75,000
Hydromorphine	150	Oxymorphone	37,500
Hydrocodone	75	Thebaine	18,750
Levorphanol	600	Diacetylmorphine (Heroin)	75
Oxycodone	45,000	6-Monoacetylmorphine	100
	OPIATES	(OPI40)	
Morphine	40	Morphine 3-β-D-Glucuronide	70
Codeine	50	Normorphine	70,000
Ethylmorphine	50	Nalorphine	100,000
Hydromorphine	200	Oxymorphone	50,000
Hydrocodone	100	Thebaine	25,000
Levorphanol	800	Diacetylmorphine (Heroin)	50
Oxycodone	60,000	6-Monoacetylmorphine	125
	XYCODON		105.000
Oxycodone Oxymorphone	20 40	Codeine Dihydrocodeine	25,000 6,250
Levorphanol	10,000	Naloxone	5,000
Hydrocodone	1,500	Naltrexone	5,000
Hydromorphone	10,000	Thebaine	25.000
	ENCYCLID	INE(PCP10)	•
Phencyclidine	10		
		ENE(PPX30)	
D-Propoxyphene	30	D-Norpropoxyphene	30
		ENE(PPX50)	150
D-Propoxyphene	50	D-Norpropoxyphene JUANA (SMA25)	50
JWH-018 5-Pentanoic acid	25	MAM2201 N-Pentanoic acid	35
JWH-073 4-Butanoic acid	25	JWH-210 N-5-Carboxypentyl	210
JWH-018 4-Hydroxypentyl	210	JWH-398 N-Pentanoic acid	175
JWH-018 5-Hydroxypentyl	300	JWH-200 6-Hydroxyindole	300
JWH-073 4-Hydroxybutyl	170	JWH-073 N-2-Hydroxybutyl	500
JWH-018 N-Propanoic acid	20	JWH-019 5-Hydroxyhexyl	500
JWH-019 6-Hydroxyhexyl	500	JWH-018	42,000
JWH-122 N-4-Hydroxypentyl	500	AM2201 N-(4-hydroxypentyl)	350
RCS4 N-5-Carboxypentyl	22,500	JWH-073 N-(3-hydroxybutyl)	225
SYNTHETIC N	IARIJUAN <i>A</i>	K2+(AB-Pinaca)(SMP)	
		AB-PINACA N-(4-hydroxypentyl)	
AB-PINACA pentanoic acid metabolite	10	metabolite	10
ADB-PINACA N-(4-hydroxypentyl)	l	ADB-PINACA N-(5-hydroxypentyl)	
metabolite	15	metabolite	20
5 floors AD DINIAGA NI (4 hordeson seetal)	00	ADB-PINACA pentanoic acid	00
5-fluoro AB-PINACA N-(4-hydroxypentyl) AB-PINACA N-(5-hydroxypentyl)	20	metabolite	20
metabolite	30	5-fluoro AB-PINACA	50
AB-PINACA	100	AB-FUBINACA	
			150
	250		150 1000
5-fluoro ADB-PINACA		5-chloro AB-PINACA	150
5-fluoro ADB-PINACA	250	5-chloro AB-PINACA	
5-fluoro ADB-PINACA  I 11- nor -Δ9-THC-9 COOH	250 MARIJUAN	5-chloro AB-PINACA A (THC12) A (THC50)	1000
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC	250 MARIJUAN 12	5-chloro AB-PINACA <b>A (THC12) A (THC50)</b> 11- nor -Δ9-THC-9 COOH	1000
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC	250 MARIJUAN 12 MARIJUAN	5-chloro AB-PINACA A (THC12) A (THC50)	1000
5-fluoro ADB-PINACA  I 11- nor -Δ9-THC-9 COOH	250 MARIJUAN 12 MARIJUAN 50 5,000	5-chioro AB-PINACA A (THC12) A (THC50) 11- nor -A9-THC-9 COOH \( \Delta \) -THC	1000
5-fluoro ADB-PINACA  11- nor -Δ9-THC-9 COOH  Δ9 -THC  Cannabinol	250 MARIJUAN 12 MARIJUAN 50 5,000 TRAMADO	5-chioro AB-PINACA A (THC12) A (THC50) 11- nor -A9-THC-9 COOH \[ \Delta \] 8-THC	1000   15   150
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol	250 MARIJUAN. 12 MARIJUAN. 50 5,000 TRAMADO 50	S-chloro AB-PINACA	1000   15   150   25
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9-THC Cannabinol  Cis-tramadol Procyclidine	250 MARIJUAN. 12 MARIJUAN. 50 5,000 TRAMADO 50 5,000	5-chloro AB-PINACA A (THC12) A (THC50) 11- nor -A9-THC-9 COOH A8 -THC L(TML50) In-Desmethyl-cis-tramadol Phencyclidine	1000   15   150   25   10,000
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9-THC Cannabinol  Cis-tramadol Procyclidine	250 MARIJUAN. 12 MARIJUAN. 50 5,000 TRAMADO 50 5,000 25,000	5-chloro AB-PINACA A (THC12) A (THC50) 11- nor -A9-THC-9 COOH	1000   15   150   25
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine	250 MARIJUAN. 12 MARIJUAN. 50 5,000 TRAMADO 50 5,000 25,000 TRAMADO	S-chloro AB-PINACA A (THC12)  A (THC50)  11- nor -Δ9-THC-9 COOH Δ8- THC  L(TML50) n-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol (TML30)	15 150 150 25 10,000 2,500
5-fluoro ADB-PINACA  111- nor -∆9-THC-9 COOH  ∆9-THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cis-tramadol	250 MARIJUAN 12 MARIJUAN 50 5,000 50 5,000 5,000 7,000 7,000 7,000 7,000 7,000 7,000 7,000 7,000	5-chloro AB-PINACA A (THC12) A (THC50) 11- nor -A9-THC-9 COOH A8 -THC L(TML50) In-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol L(TML10) In-Desmethyl-cis-tramadol	1000 15 150 25 10,000 2,500
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cis-tramadol Procyclidine	250 MARIJUAN 12 MARIJUAN 50 5,000 50 5,000 25,000 TRAMADO 30 3,000	S-chloro AB-PINACA A (THC12)  A (THC50) 11- nor -A9-THC-9 COOH	15 15 150 25 10,000 2,500 15 6,000
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  d,I-O-Desmethyl venlafaxine	250 MARIJUAN, 12 MARIJUAN, 50 5,000 TRAMADO 50 5,000 25,000 TRAMADO 30 3,000 15,000	S-chloro AB-PINACA A (THC12)  A (THC50)  11- nor -Δ9-THC-9 COOH Δ8- THC  L(TML50) n-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol Phencyclidine p-Desmethyl-cis-tramadol O-Desmethyl-cis-tramadol Phencyclidine	1000 15 150 25 10,000 2,500
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9-THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine	250 MARIJUAN. 12 MARIJUAN. 50 5,000 50 5,000 125,000 125,000 130 3,000 145,000 20PICLON	5-chloro AB-PINACA A (THC12)  A (THC50) 11- nor -A9-THC-9 COOH A8 -THC  L(TML50) n-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol L(TML30) n-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol	15 150 25 10,000 2,500 15 6,000 1,500
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine	250 MARIJUAN 12 MARIJUAN 50 5,000  TRAMADO 50 5,000 25,000 3,000 3,000 15,000 20 20 20	S-chloro AB-PINACA A (THC12)  A (THC50) 11- nor -A9-THC-9 COOH	15 15 150 25 10,000 2,500 15 6,000
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Zopiclone  6-MONOA	250 MARIJUAN 12 MARIJUAN 50 5,000  TRAMADO 50 5,000 25,000 3,000 3,000 15,000 20 20 20	5-chloro AB-PINACA A (THC50)  11-nor -Δ9-THC-9 COOH Δ8-THC  L(TML50) n-Desmethyl-cis-tramadol Phencyclidine ο-Desmethyl-cis-tramadol L(TML30) n-Desmethyl-cis-tramadol Desmethyl-cis-tramadol L(TML30) Desmethyl-cis-tramadol L(ZOP20) Zopiclone-N-oxide RPHINE (6-MAM 3)	15 150 25 10,000 2,500 15 6,000 1,500
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Zopiclone  6-MONOA  6-MONOA	250 WARIJUAN. 112 WARIJUAN. 50 50 5,000 25,000 25,000 3,000 15,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000	S-chloro AB-PINACA A (THC12)  A (THC50) 11- nor -A9-THC-9 COOH	15 150 150 25 10,000 2,500 15 6,000 1,500
5-fluoro ADB-PINACA  111- nor -Δ9-THC-9 COOH  Δ9 -THC Cannabinol  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cis-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Cost-tramadol Procyclidine d,I-O-Desmethyl venlafaxine  Zopiclone  6-MONOA 6-Monoacetylmorphine  6-MONOA	250  MARIJUAN.  12  MARIJUAN.  50  50  5,000  7RAMADO  50  5,000  25,000  30  30,000  15,000  2OPICLON  20  CETYLMO  3  GETYLMO  5	5-chloro AB-PINACA A (THC12) A (THC50) 11- nor -A9-THC-9 COOH A8 -THC L(TML50) In-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol L(TML50) In-Desmethyl-cis-tramadol Phencyclidine o-Desmethyl-cis-tramadol Phencyclidine O-Desmethyl-cis-tramadol Phencyclidine O-Desmethyl-cis-tramadol Phencyclidine O-Desmethyl-cis-tramadol Phencyclidine O-Desmethyl-cis-tramadol Diacotylmorphine(herion)	15 150 150 25 10,000 2,500 15 6,000 1,500

The following substances may interfere with Alcohol Strip (Saliva):

Strong oxidizers Ascorbic acid

Tannic acid Polyphenolic compounds

Mercaptans Uric acid Bilirubin Oxalic acid

These compounds don't exist in saliva usually, and may not interfere with the test.

## Cross-Reactivity

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 Fluid Drug Screen Test when tested with at concentrations up to 10 µg/mL.

Acetaminophen Acetophenetidin N-Acetylprocainamide

Aminopyrine Amoxicillin Acetylsalicylic acid Ampicillin I-Ascorbic acid Aspartame Atropine Benzilic acid Benzoic acid Caffeine d/I-Brompheniramine Chloral-hydrate Chloramphenicol Chlorothiazide Cortisone Chlorpromazine Chloroquine Cholesterol Creatinine Deoxycorticosterone Diclofenac Diflunisal Digoxin Diphenhydramine β-Estradiol I(-)-Epinephrine Erythromycin Estrone-3-sulfate Ethyl-p-aminobenzoate Fenoprofen Gentisic acid Hvdralazine p-Hydroxytyramine o-Hydroxyhippuric acid Hydrochlorothiazide Hydrocortisone Ibuprofen d/l-Isoproterenol Isoxsuprine Iproniazid Ketoprofen Labetalol Meprobamate Methylphenidate Loperamide Nalidixic acid Naproxen Niacinamide Norethindrone Nifedipine d/I-Octopamine

Oxymetazoline Papaverine Phenelzine Phenylpropanolamine

Trans-2-phenylcyclopropylamine Prednisolone Prednisone hydrochloride d/l-Propranolol d-Pseudoephedrine Quinacrine Quindine Quinine Ranitidine Salicylic acid Serotonin Sulfamethazine

Sulindac Tetracycline Tetrahydrocortisone 3-acetate

Penicillin-G

Tetrahydrocortisone3-(β-D-Tolbutamide Thiamine glucuronide) Triamterene Trifluoperazine d/l-Tryptophan Tyramine d/I-Tyrosine Uric acid Verapamil Zomepirac

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