

Multi-Drug Rapid Test Cup with Indicator and ALC Strip (Oral Fluid)
Package Insert
English

A rapid test for the simultaneous, qualitative detection of multiple drugs or drug metabolites in human oral fluid. For in vitro diagnostic use by healthcare professionals including professionals at point of care sites. Also applicable for workplace safety and law enforcement use.

【INTENDED USE】

The Multi-Drug Rapid Test Cup for AMP/BAR/BUP/BZO/COC/COT/FYU/KET/MDMA/MET/MTD/OP/ OXY/PCP/PPX/SMA/SMP/THC/TML/ZOP/6-MAM/ALC is a lateral flow chromatographic immunoassay for the qualitative detection of multiple drugs or metabolites in oral fluid at the following cut-off concentrations:

Test	Calibrator	Cut-off (ng/mL)
Amphetamine (AMP)	β-Amphetamine	25
Amphetamine (AMP)	β-Amphetamine	50
Barbiturates(BAR)	Secobarbital	50
Buprenorphine (BUP)	Buprenorphine	5
Buprenorphine (BUP)	Buprenorphine	10
Benzodiazepines(BZO)	Oxazepam	10
Benzodiazepines(BZO)	Oxazepam	20
Benzodiazepines(BZO)	Oxazepam	30
Cocaine (COC)	Cocaine	15
Cocaine (COC)	Cocaine	20
Cocaine (COC)	Cocaine	50
Cotinine(COT)	Cotinine	30
Cotinine(COT)	Cotinine	50
Fentanyl(FYL)	Fentanyl	10
Ketamine(KET)	Ketamine	30
Ketamine(KET)	Ketamine	50
Methylenedioxymethamphetamine (MDMA)	d,l-Methylenedioxymethamphetamine	50
Methamphetamine (MET)	β-Methamphetamine	25
Methamphetamine (MET)	β-Methamphetamine	50
Methadone (MTD)	Methadone	30
Opiates (OPI)	Morphine	30
Opiates (OPI)	Morphine	40
Opiates (OPI)	Morphine	50
Oxycodone (OXY)	Oxycodone	20
Phencyclidine (PCP)	Phencyclidine	3
Phencyclidine (PCP)	Phencyclidine	10
Propoxyphene (PPX)	β-Propoxyphene	30
Propoxyphene (PPX)	β-Propoxyphene	50
Synthetic Marijuana(SMA/K2)	JWH-018 5-Pentanoic acid metabolite	25
Synthetic Marijuana(SMA/K2)	JWH-018 5-Pentanoic acid metabolite	30
Synthetic Marijuana K2+(AB-Pinaca)(SMP)	AB-PINACA pentanoic acid metabolite	10
Marijuana (THC15)	Δ9-THC	15
Marijuana (THC40)	Δ9-THC	40
Marijuana (THC50)	Δ9-THC	50
Tramadol(TML)	Cis-Tramadol	30
Tramadol(TML)	Cis-Tramadol	50
Zopiclone(ZOP)	Zopiclone	3
β-Monoacetylmorphine(6-MAM)	β-Monoacetylmorphine	3
β-Monoacetylmorphine(6-MAM)	β-Monoacetylmorphine	5
β-Monoacetylmorphine(6-MAM)	β-Monoacetylmorphine	10
Alcohol(ALC)	Alcohol	0.02%(20mg/dL)

This assay provides only a preliminary analytical test result. A more specific alternate chemical method should be used to confirm a preliminary positive analytical result. Gas chromatography/mass spectrometry (GC/MS), gas chromatography/tandem 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. Professional judgment should be applied to any drug of abuse screen test result, particularly when preliminary positive results are indicated.

【SUMMARY】

The Multi-Drug Rapid Test Cup for AMP/BAR/BUP/BZO/COC/COT/FYU/KET/MDMA/MET/MTD/OP/ 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.¹
The AMP assay contained within The Multi-Drug Rapid Test Cup 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.¹
The AMP assay contained within The Multi-Drug Rapid Test Cup 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 tolerance 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.³
The BAR assay contained within The Multi-Drug Rapid Test Cup 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. 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.

Buprenorphine(BUP10)
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.

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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.

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Benzodiazepines (BZO30)
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Cocaine (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 benzoylecgonine and ecgonine methyl ester can be detected in oral fluid as early as 5-10 minutes following use.² Cocaine and benzoylecgonine can be detected in oral fluids for up to 24 hours after use.²
The COC assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the cocaine in oral fluid exceeds 15ng/mL.

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The COC assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the cocaine in oral fluid exceeds 20ng/mL.

Cocaine (COC50)
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.² Cocaine and benzoylecgonine can be detected in oral fluids for up to 24 hours after use.²
The COC assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the cocaine in oral fluid exceeds 50ng/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-hand 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.

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Fentanyl(FYL10)
Fentanyl belongs to powerful narcotics analgesics, and is a μ special opiates receptor stimulant. Fentanyl is one of the varieties that have been listed in management of International '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 irritability etc, which presents the addiction after taking fentanyl in a 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 life long medication overdose.

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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.

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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 in focusing, and blurred vision in some users. Its mechanism of action is thought to be via release of the neurotransmitter serotonin, MDMA may also release dopamine, although the general opinion is that this is a secondary effect of the drug (Nichols and Oberlander, 1990). The MDMA assay contained within The Multi-Drug Rapid Test Cup 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.¹
The MET assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the methamphetamine concentration in oral fluid exceeds 25ng/mL.

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The MET assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the methamphetamine concentration in oral fluid exceeds 50ng/mL.

Opiates (OPI30)
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 cutoff level of 40ng/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.³ Heroin metabolite 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid than urine.

Opiates (OPI40)
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 cutoff level of 40ng/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.³ Heroin metabolite 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid than urine.

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Oxycodone (OXY20)
Oxycodone is a semi-synthetic opioid with a structural similarity to codeine. The drug is manufactured by modifying the baine, 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 on the wall of hollow viscera. Oxycodone is prescribed for the relief of moderate to high pain in the well-known pharmaceutical code 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. Oxycodone is known to metabolize by demethylation into oxycodone and noroxycodone.

Oxycodone (OXY30)
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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.³ The PCP assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the Phencyclidine concentration in oral fluids exceeds 10ng/mL.

Phencyclidine (PCP30)
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Propoxyphene (PPX30)
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.

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.

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 suggest that synthetic marijuana intoxication is associated with acute psychosis, worsening of previously stable psychotic disorders, and also may have the ability to trigger a chronic(long-term) psychotic disorder among vulnerable individuals such as those with a family history of mental illness.

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Synthetic Marijuana(SMA50)
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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.

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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.¹
The MET assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the methamphetamine concentration in oral fluid exceeds 25ng/mL.

Methamphetamine (MET50)
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The MET assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the methamphetamine concentration in oral fluid exceeds 50ng/mL.

Opiates (OPI30)
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 cutoff level of 40ng/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.³ Heroin metabolite 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid than urine.

Opiates (OPI40)
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 cutoff level of 40ng/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.³ Heroin metabolite 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid than urine.

Opiates (OPI50)
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 cutoff level of 40ng/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.³ Heroin metabolite 6-monoacetylmorphine (6-MAM) is found more prevalently in oral fluid than urine.

Oxycodone (OXY)
Oxycodone is a semi-synthetic opioid with a structural similarity to codeine. The drug is manufactured by modifying the baine, 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 on the wall of hollow viscera. Oxycodone is prescribed for the relief of moderate to high pain in the well-known pharmaceutical code 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. Oxycodone is known to metabolize by demethylation into oxycodone and noroxycodone.

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/mL.³ The PCP assay contained within The Multi-Drug Rapid Test Cup yields a positive result when the Phencyclidine concentration in oral fluids exceeds 10ng/mL.

Propoxyphene (PPX)
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.

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 suggest that synthetic marijuana intoxication is associated with acute psychosis, worsening of previously stable psychotic disorders, and also may have the ability to trigger a chronic(long-term) psychotic disorder among vulnerable individuals such as those with a family history of mental illness.

Synthetic Marijuana(SMA30)
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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.

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QUALITY CONTROL

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

LIMITATIONS

- The Multi-Drug Rapid Test Cup 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/tandem 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.

Alcohol Strip

- The saliva sample should be collected 15 minutes after taking 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
Assess each single test into the cup before testing, and evaluate the cut 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 Multi-Drug Rapid Test Cup. Specimens were rated as either positive or negative at 10 minutes. The test results are shown in table below.

Table: Specimen Correlation				
Method	GC/MS		% agreement with GC/MS	% Total agreement with GC/MS
	Positive	Negative		
Multi-Drug Rapid Test Cup	Positive	Negative		
	Positive	Negative		
AMP 25	56	2	96.6%	97.5%
	2	100	98.0%	
AMP 50	90	6	94.7%	94.8%
	5	109	94.8%	
BAR50	80	6	96.4%	95.7%
	3	121	95.3%	
BUP5	86	5	95.6%	95.7%
	4	115	95.8%	
BUP 10	86	5	95.6%	95.7%
	4	115	95.8%	
BZO10	94	5	94.0%	94.8%
	6	105	95.5%	
BZO20	94	5	94.0%	94.8%
	6	105	95.5%	
BZO 30	94	5	94.0%	94.8%
	6	105	95.5%	
COC15	41	0	>99%	>99%
	0	109	>99%	
COC20	38	2	92.7%	96.7%
	3	107	98.2%	
COC50	38	2	92.7%	96.7%
	3	107	98.2%	
COT30	131	2	99.2%	98.7%
	1	96	98.0%	
COT 50	131	2	99.2%	98.7%
	1	96	98.0%	
FYL10	53	1	98.1%	96.7%
	4	92	95.8%	
KET 30	49	3	94.2%	94.5%
	5	88	94.6%	
KET 50	90	6	93.8%	94.8%
	5	109	95.6%	
MDMA50	96	1	97.0%	98.3%
	3	130	99.2%	
MET 25	43	2	95.6%	96.4%
	3	92	96.8%	
MET 50	126	4	99.2%	98.2%
	1	149	97.4%	
MTD 30	116	3	97.5%	97.4%
	3	108	97.3%	
OPI 30	61	3	95.3%	96.8%
	2	89	97.8%	
OPI40	89	7	93.7%	93.8%
	6	108	93.9%	
OPI50	89	7	93.7%	93.8%
	6	108	93.9%	
OXY 20	91	1	97.8%	98.7%
	2	136	99.3%	
PCP 3	107	2	96.4%	97.4%
	4	117	98.3%	
PCP 10	107	2	96.4%	97.4%
	4	117	98.3%	
PPX 30	92	3	95.8%	96.7%
	4	111	97.4%	
PPX 50	92	3	95.8%	96.7%
	4	111	97.4%	
SMA 25	52	2	92.9%	96%
	4	92	97.9%	
SMA 30	52	2	92.9%	96%
	4	92	97.9%	
SMP 10	4	0	>99%	>99%
	0	40	>99%	
THC 15	75	5	96.2%	96.8%
	3	167	97.1%	
THC 40	84	1	>99%	99.6%
	0	165	99.4%	
THC 50	75	5	96.2%	96.8%
	3	167	97.1%	
TML 50	80	6	96.4%	95.7%
	3	121	95.3%	
TML 30	89	0	>99%	>99%
	0	121	>99%	
ZOP 20	36	0	>99%	>99%
	0	114	>99%	
6-MAM 3	36	0	>99%	>99%
	0	128	>99%	
6-MAM 5	36	0	>99%	>99%
	0	128	>99%	
6-MAM 10	36	0	>99%	>99%
	0	128	>99%	

Alcohol Strips	Results	>0.02% (Spiked)	0	Total Results
Alcohol Strip(Saliva)	Positive	30	0	30
	Negative	1	29	30
Total Results		31	29	60

% Agreement	97%	100%	98%
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Analytical Sensitivity

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

Drug conc. (Cut-off range)	n	AMP25		AMP50		BAR50		BUP5	
		-	+	-	+	-	+	-	+
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. (Cut-off range)	n	BUP 10		BZO10		BZO20		BZO30	
		-	+	-	+	-	+	-	+
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	27	3	27	3	27	3
Cut-off	30	15	15	15	15	15	15	15	15
+25% Cut-off	30	7	23	7	23	7	23	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. (Cut-off range)	n	COC15		COC20		COC50		COT30	
		-	+	-	+	-	+	-	+
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	15	15	15	15	15	15	20	10
+25% Cut-off	30	5	25	3	27	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

Drug conc. (Cut-off range)	n	COT50		FYL10		KET30		KET50	
		-	+	-	+	-	+	-	+
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

Drug conc. (Cut-off range)	n	MDMA50		MET25		MET50		MTD30	
		-	+	-	+	-	+	-	+
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	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
+300% Cut-off	30	0	30	0	30	0	30	0	30

Drug conc. (Cut-off range)	n	OPI30		OPI40		OPI50		OXY20	
		-	+	-	+	-	+	-	+
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	27	3	25	5
Cut-off	30	14	16	15	15	15	15	15	15
+25% Cut-off	30	4	26	8	22	8	22	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. (Cut-off range)	n	PCP3		PCP10		PPX30		PPX50	
		-	+	-	+	-	+	-	+
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	26	4	25	5	25	5
Cut-off	30	14	16	14	16	15	15	15	15
+25% Cut-off	30	5	25	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. (Cut-off range)	n	SMA25		SMA30		SMP10		THC15	
		-	+	-	+	-	+	-	+
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	26	4	27	3	26	4
Cut-off	30	15	15	15	15	15	15	12	18
+25% Cut-off	30	4	26	4	26	3	27	8	22
+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. (Cut-off range)	n	THC40		THC50		TML30		TML50	
		-	+	-	+	-	+	-	+
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

Analytical Specificity

The following table lists the cutoff concentration of compounds (ng/mL) above which will be detected by The Multi-Drug Rapid Test Cup for AMP/BUP/BZO/COC/COT/FYL/KET/MDMA/MET/MTD/OPI/OXY/PPX/PPX/SMA/SMP/THC/TML/ZOP/6-MAM/ALC at a read time of 10 minutes, respectively.

Compound	ng/mL		Compound	ng/mL
	AMP25	(AMP25)		
D-Amphetamine	25	p-Hydroxyamphetamine	200	
D,L-Amphetamine	500	(+)-3,4-Methylenedioxyamphetamine (MDA)	250	
L-Amphetamine	35,000			

AMPHETAMINE (AMP50)		
D-Amphetamine	50	p-Hydroxyamphetamine
D,L-Amphetamine	1,000	(+)-3,4-Methylenedioxyamphetamine (MDA)
L-Amphetamine	70,000	

BARBITURATES (BAR50)		
Amobarbital	250	Pentobarbital
Aprobarbital	80	Phenobarbital
Butobarbital	25	Secobarbital
Butalbital	500	

BUPRENORPHINE (BUP5)		
Norbuprenorphine	90	Buprenorphine
Buprenorphine-3-β-D-glucuronide	50	Norbuprenorphine-3-β-D-glucuronide

BUPRENORPHINE (BUP10)		
Norbuprenorphine	180	Buprenorphine
Buprenorphine-3-β-D-glucuronide	100	Norbuprenorphine-3-β-D-glucuronide

BENZODIAZEPINES (BZO10)		
Oxazepam	10	7-Amino-clonazepam
Alprazolam	100	Bromazepam
Chlordiazepoxide	50	Clonazepam
Desalkylfurazepam	500	Diazepam
Estazolam	80	Flunitrazepam
Furosemide	5,000	Lorazepam
Midazolam	1,000	Midazolam Maleate
Nefopam	1,000	Nitrazepam
Norchlordiazepoxide	25	Oxolinic acid
Pheniramine	50,000	Theophylline
α-Hydroxyalprazolam	50	

BENZODIAZEPINES (BZO20)		
Oxazepam	20	7-Amino-clonazepam
Alprazolam	200	Bromazepam
Chlordiazepoxide	100	Clonazepam
Desalkylfurazepam	1,000	Diazepam
Estazolam	160	Flunitrazepam
Furosemide	10,000	Lorazepam
Midazolam	2,000	Midazolam Maleate
Nefopam	2,000	Nitrazepam
Norchlordiazepoxide	50	Oxolinic acid
Pheniramine	100,000	Theophylline
α-Hydroxyalprazolam	100	

BENZODIAZEPINES (BZO30)		
Oxazepam	50</	