

Multi-drug Saliva Test Cup

MD-S614

For forensic use only.

INTENDED USE

Multi-drug Saliva Test Cup is a rapid visual immunoassay for the qualitative detection of drugs of abuse in human oral fluid specimens. The test system consists of up to 16 membrane strips mounted in a plastic device. This test detects combinations of the following drugs at the concentrations listed below. Specific combinations will vary according to the test in question:

Test	Calibrator	Cut-off (ng/mL)
6-Monoacetylmorphine(6-MAM)	6-Monoacetylmorphine	25/10
Amphetamine (AMP)	D-Amphetamine	50/40
APVP (APVP)	α -Pyrrolidinovalerophenone	300
Alprazolam (ALP)	Alprazolam	30
Barbiturate(BAR)	Secobarbital	100/50
Benzodiazepine (BZO)	Oxazepam	100/50/10
Buprenorphine(BUP)	Buprenorphine	5
Cocaine (COC)	Cocaine	50/30/20
Cotinine(COT)	Cotinine	50/30
Diazepam (DIA)	Diazepam	10
EDDP(EDDP)	2-Ethyliden-1,5-Dimethyl-3,3-Diphenylpyrr	20
	olidine	
Fentanyl(FYL)	Fentanyl	10
Hydromorphone (HMO)	Hydromorphone	30
Ketamine (KET)	Ketamine	100/50/30
K2	JWH-073/JWH-018	50/30/25
K4	UR-144	25
Mephedrone (MEP)	Mephedrone	100
Methamphetamine (MET)	D-Methamphetamine	50/40/35
Methaqualone (MQL)	Methaqualone	30
Ecstasy (MDMA)	3,4-Methylenedioxymethamphetamine	50/40
MDPV	Methylenedioxypyrovalerone	50
Methadone (MTD)	Methadone	50/30
Opiates (OPI)	Morphine	50/40/25/20
Oxycodone(OXY)	Oxycodone	40/20
Phencyclidine (PCP)	Phencyclidine	10
Propoxyphene(PPX)	Propoxyphene	50/40
Pregabalin (PGB)	Pregabalin	500
Gabapentin (GAB)	Gabapentin	2000
Marijuana (THC)	11-nor-Δ ⁹ -THC-9 COOH	25/12
Marijuana (THC)	Δ^9 -THC	50/40
Tricyclic Antidepressant (TCA)	Nortriptyline	100
Tramadol (TML)	Cis-Tramadol	30
Alcohol (ALC)	Alcohol	0.02%

PRINCIPLE

Multi-drug Saliva Test Cup 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.

Saliva Alcohol Test consists of a plastic strip with a reaction pad attached at the tip. On contact with solutions of alcohol, the reaction pad will rapidly turn colors depending on the concentration of alcohol present. The pad employs a solid-phase chemistry which uses a highly specific enzyme reaction.

MATERIALS

Materials Provided

- · Individually packed screening devices
- · Oral fluid collection swabs
- Package insert
- Alcohol Color Chart (when applicable)

Materials Required but Not provided

Timer

· Positive and negative controls

PRECAUTIONS

- · For forensic use only.
- Do not use after the expiration date indicated on the package. Do not use the test if the foil pouch is damaged. Do not reuse tests.
- This kit contains products of animal origin. Certified knowledge of the origin and/or sanitary state of
 the animals does not completely guarantee the absence of transmissible pathogenic agents. It is
 therefore, recommended that these products be treated as potentially infectious, and handled by
 observing usual safety precautions (e.g., do not ingest or inhale).
- · Read the entire procedure carefully prior to testing.
- Do not eat, drink or smoke in the area where specimens and kits are handled. Handle all specimens
 as if they contain infectious agents. Observe established precautions against microbiological hazards
 throughout the procedure and follow standard procedures for the proper disposal of specimens. Wear
 protective clothing such as laboratory coats, disposable gloves and eye protection when specimens
 are assayed.
- Humidity and temperature can adversely affect results.
- · Used testing materials should be discarded in accordance with local regulations.
- Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are assayed.

STORAGE AND STABILITY

- The kit should be stored at 36-86°F (2-30°C) until the expiry date printed on the sealed pouch.
- . The test must remain in the sealed pouch until use.
- Do not freeze.
- Kits should be kept out of direct sunlight.
- Care should be taken to protect the components of the kit from contamination. Do not use if there is
 evidence of microbial contamination or precipitation. Biological contamination of dispensing
 equipment, containers or reagents can lead to false results.

SPECIMEN COLLECTION AND STORAGE

- · Multi-drug Saliva Test Cup is intended for use with human oral fluid specimens only.
- Oral fluid specimens must be collected according to the directions in the Procedure section of this
 package insert.
- Perform testing immediately after specimen collection.
- If specimens are to be shipped, pack them in compliance with all applicable regulations for transportation of etiological agents.

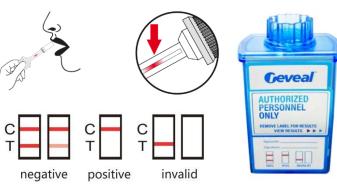
PROCEDURE

Bring tests, specimens, and/or controls to room temperature (60-86°F or 15-30°C) before use. Donors should avoid placing anything (including food, drink, gum and tobacco products) in their mouth for at least 10 minutes prior to specimen collection.

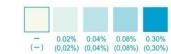
- The oral fluid specimen should be collected using the collector provided with the kit. No other collection devices should be used with this assay.
- 2. Instruct the donor to not place anything in the mouth including food, drink, gum, or tobacco

- products for at least 10 minutes prior to collection.
- Bring tests, specimens, and/or controls to room temperature (60-86°F or 15-30°C) before use.
- 4. Using the provided collection swab, have donor sweep inside of mouth (cheek, gums, and tongue) several times, and then hold swab in mouth until color on the saturation indicator strip appears in the indicator window of collection swab. Important: Do not bite, suck, or chew on the sponge.
 - **NOTE:** After 7 minutes, proceed with the test below, even if color on the saturation indicator has not appeared in the indicator window.
- Remove the collection swab from the mouth and insert it, sponge first, into the screening device. Screw cap down tightly until fully locked.
- Test device upright on flat surface and keep upright while test is running. Wait for the colored bands to appear in test results area. Read results at 10 minutes. Do not interpret the result after 20 minutes.
- 7. For alcohol test, read results at 2 minutes by visually comparing the color of the reaction pad to the corresponding color blocks printed on the pouch to determine the alcohol concentration. Do not interpret the result after 3 minutes.

NOTE: Once the collection swab locks in place, the device is airtight, tamper evident, and ready to be disposed or sent to lab for confirmation (on presumptive positive result).



For ALC, read result at 3min,



INTERPRETATION OF RESULTS

INTERPRETATION OF DOA RESULTS:

(See previous illustration)

POSITIVE: Only one colored band appears, in the control region (C). No colored band appears in the test region (T) for the drug in question. A positive result indicates that the drug concentration exceeds the detectable level.

NEGATIVE: Two colored bands appear on the membrane. One band appears in the control region (C) and another band appears in the test region (T) for the drug in question. A negative result indicates that the drug concentration is below the detectable level.

INVALID: Control band fails to appear. Results from any test which has not produced a control band (C) at the specified read time must be discarded. Please review the procedure and repeat with a new test. If the problem persists, discontinue using the kit immediately and contact your local distributor.

NOTE:

- The intensity of color in the test region (T) may vary depending on the concentration of analytes
 present in the specimen. Therefore, any shade of color in the test region (T) should be considered
 negative. Please note that this is a qualitative test only, and cannot determine the concentration of
 analytes in the specimen.
- Insufficient specimen volume, incorrect operating procedure or expired tests are the most likely reasons for control band failure.

For Alcohol tests:

Positive: The One Step Saliva Alcohol Test will produce a color change in the presence of saliva alcohol. The color will range from light blue color at 0.02% relative blood alcohol concentration to a dark blue color

Number: H10110554000 REV1.0 Effective date: 2024-6-12 Page 1/4

near 0.30% relative blood alcohol concentration. Color pads are provided within this range to allow an approximation of relative blood alcohol concentration. The test may produce colors that appear to be between adjacent color pads.

NOTE: The One Step Saliva Alcohol Test is very sensitive to the presence of alcohol. A blue color that is lighter than the 0.02% color pad should be interpreted as being positive to the presence of alcohol in saliva but less than 0.02% relative blood alcohol.

Negative: When the One Step Saliva Alcohol Test shows no color change this should be interpreted as a negative result indicating that alcohol has not been detected.

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

NOTE: A result where the outer edges of the color pad produces a slight color but the majority of the pad remains colorless the test should be repeated to ensure complete saturation of the pad with saliva. The test is not reusable.

QUALITY CONTROL

- . Internal procedural controls are included in the test. A colored band appearing in the control region (C) is considered an internal positive procedural control, confirming sufficient specimen volume and correct procedural technique.
- External controls are not supplied with this kit. It is recommended that positive and negative controls be tested as a good laboratory practice to confirm the test procedure and to verify proper test performance.

LIMITATIONS OF THE TEST

- 1. Multi-drug Saliva Test Cup should be only used for the qualitative detection of drugs of abuse in
- 2. This assay provides a preliminary analytical test result only. A more specific alternative chemical method must be used in order to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS) has been established as the preferred confirmatory method by the National Institute on Drug Abuse (NIDA). Clinical consideration and professional judgment should be applied to any test result, particularly when preliminary positive results are indicated.
- 3. There is a possibility that technical or procedural errors as well as other substances and factors may interfere with the test and cause false results.
- 4. A positive result indicates the presence of a drug/metabolite only, and does not indicate or measure intoxication.
- 5. A negative result does not at any time rule out the presence of drugs/metabolites in saliva, as they may be present below the minimum detection level of the test.
- 6. This test does not distinguish between drugs of abuse and certain medications.

Limitation of ALC test:

- 1. Failure to wait 15 minutes after placing food, drink, or other materials (including smoking) in the mouth before running the test can produce erroneous results due to possible contamination of the saliva by interfering substances.
- 2. The Saliva Alcohol Test is highly sensitive to the presence of alcohol. Alcohol vapors in the air are sometimes detected by the Saliva Alcohol Test. Alcohol vapors are present in many institutions and homes. Alcohol is a component in many household products such as disinfectant, deodorizers, perfumes, and glass cleaners. If the presence of alcohol vapors is suspected, the test should be performed in an area known to be free of vapors.
- 3. Ingestion or general use of over-the-counter medications and products containing alcohol can produce positive results.

PERFORMANCE CHARACTERISTICS

A phosphate-buffered saline (PBS) pool was spiked with drugs to target concentrations of ± 50% cut-off and \pm 25% cut-off and tested with Multi-drug Saliva Test Cup. The results are summarized below.

Drug Conc.		6-M/	M25	6-M/	AM10	AM	P50	AM	P40	APV	P300	AL	P30
(Cut-off range)	n	-	+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	30	30	0	21	9	26	4	22	8	22	8	23	7
Cut-off	30	15	15	12	18	12	18	10	20	10	20	11	19
+25% Cut-off	30	2	28	7	23	2	28	4	26	4	26	3	27
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.		BAI	R100	BA	R50	BZC)100	BZ	O50	BZC	D10
(Cut-off range)	n	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0

-25% Cut-off	30	27	3	27	3	30	0	30	0	28	2
Cut-off	30	9	21	9	21	14	16	8	22	11	19
+25% Cut-off	30	2	28	3	27	4	26	3	27	4	26
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.		BU	P5	CO	C50	CO	C30	CO	C20	CO	T50	CO	Т30
(Cut-off range)	n	ı	+	-	+	-	+	•	+	ı	+	•	+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	30	28	2	30	0	26	4	29	1	30	0	23	7
Cut-off	30	11	19	10	20	10	20	12	18	11	19	5	25
+25% Cut-off	30	8	22	4	26	4	26	2	28	1	29	2	28
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.		DIA	\10	EDI	P20	FY	L10	HM	O30	TCA	100	KET	100
(Cut-off range)	n	1	+	1	+	1	+	1	+	1	+	1	+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	30	20	10	30	0	22	8	30	0	25	5	27	3
Cut-off	30	8	22	13	17	12	18	8	22	11	19	9	21
+25% Cut-off	30	5	25	2	28	2	28	7	23	6	24	3	27
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.		KE	T50	KE	T30	K2	50	K2	30	K2	25	TM	L30
(Cut-off range)	n		+	-	+	-	+	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	30	27	3	20	10	26	4	26	4	18	12	20	10
Cut-off	30	9	21	11	19	10	20	10	20	9	21	9	21
+25% Cut-off	30	3	27	5	25	3	27	4	26	7	23	15	15
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.	-	K4	25	MEI	P 100	ME	T50	ME	T40	ME	T35	MQ	L30
(Cut-off range)	n		+		+	-	+		+		+		+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	30	30	0	20	10	25	5	21	9	30	0	25	5
Cut-off	30	10	20	8	22	13	17	11	19	8	22	12	18
+25% Cut-off	30	1	29	4	26	3	27	6	24	2	28	7	23
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.	_	MDN	1A50	MDN	/IA40	MDI	PV50	MT	D50	MT	D30	OP:	150
(Cut-off range)	n		+	•	+	•	+		+				+
0% Cut-off	30	30	30	30	30	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	30	30	30	30	0	30	0	30	0	30	0
-25% Cut-off	30	25	5	27	3	22	8	25	5	28	2	27	3
Cut-off	30	14	16	14	16	10	20	9	21	10	20	9	21
+25% Cut-off	30	4	26	4	26	4	26	8	22	3	27	3	27
+50% Cut-off	30	0	0	0	0	0	30	0	30	0	30	0	30

Drug Conc.	_	OP	I40	OP	125	OP	120	OX	Y40	OX	Y20	PCI	P10
(Cut-off range)	n	-	+		+		+	-	+	-	+		+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0	30	0
-25% Cut-off	30	28	2	26	4	26	4	28	2	28	2	28	2
Cut-off	30	10	20	13	17	13	17	10	20	10	20	11	19
+25% Cut-off	30	9	21	9	21	8	22	4	26	4	26	5	25
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.	_	PP	X50	PP:	X40	PGI	3500	GAB	2000	THO	C 50
(Cut-off range)	n	•	+	•	+	•	+	•	+	•	+
0% Cut-off	30	30	0	30	0	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0	30	0	30	0

-25% Cut-off	30	30	0	19	11	22	8	26	4	28	2
Cut-off	30	10	20	12	18	13	17	10	20	13	17
+25% Cut-off	30	4	26	7	23	6	24	5	25	9	21
+50% Cut-off	30	0	30	0	30	0	30	0	30	0	30

Drug Conc.		THC40		THC25		THC12	
(Cut-off range)	n	-	+	-	+	-	+
0% Cut-off	30	30	0	30	0	30	0
-50% Cut-off	30	30	0	30	0	30	0
-25% Cut-off	30	28	2	24	6	27	3
Cut-off	30	11	19	10	20	12	18
+25% Cut-off	30	4	26	8	22	7	23
+50% Cut-off	30	0	30	0	30	0	30

B. Specificity

Alphenal

Amobarbital

The following table lists the concentrations of compounds (in ng/ml) above which Multi-drug Saliva Test Cup identified positive results at 10 minutes.

6-MAM 10-Related Compounds			
6-Monoacetylmorphine	10	Hydrocodone	>10,000
Acetylcodeine	>10,000	Hydromorphone	>100,000
Buprenorphine	>10,000	Morphine	100,000
Codeine	5000	Morphine-3-glucuronide	>10,000
Diacetylmorphine	1000	Nalorphine	>50,000
Dihydrocodeine	>10,000	Thebaine	>20,000
Ethylmorphine	>10,000		
6-MAM 25-Related Compounds			
6-Monoacetylmorphine	25	Dihydrocodeine	50
Acetylcodeine	80	Ethylmorphine	15
Buprenorphine	>10000	Morphine-3-glucuronide	100
Codeine	15	Nalorphine	1200
Diacetylmorphine	15	Thebaine	>20000
ALP 30 -Related Compounds			
Alprazolam	30	Prazepam	>10,000
Oxazepam	100	Temazepam	40
Bromazepam	30	Triazola	50
Chlordiazepoxide	15	Chlorpheniramine Maleate	>10,000
Clorazepam	30	Midzaolam	1000
Clorazepate	20	Morphine-3β-D-glucuronide	>10,000
Clobazam	30	Nimetazepam	100
Diazepam	100	Alpha - Hydroxy Blprazolam	100
Estazolam	100	Lormetazepam	200
Desalkyflurazepam	30	Norchlordiazepoxide Quik-chek	90
Flunitrazepam	50	Norcodeine	100000
Flurazepam	>100,000	7-Aminoclonazepam	9000
Lorazepam	100	N-Desmethy HCL	25000
Nitrazepam	15	a -Hydroxyalprazolem	500
Nordiazepam	100	J J 1	
AMP 40 -Related Compounds			
D-Amphetamine	40	Phentermine	30,000
L-Amphetamine	3,000	PMA	100
(+)-3,4-Methylenedioxyamphetamine	.,		
(MDA)	120	Tyramine	2,500
AMP 50 -Related Compounds			
D-Amphetamine	50	Phentermine	40,000
L-Amphetamine	4,000	PMA	125
(+)-3,4-Methylenedioxyamphetamine			
(MDA)	150	Tyramine	3,000
APVP 300-related compounds			
a -PVP	300	PVP	>100,000
MDPV	30		,000
BAR 100 -Related Compounds	- *		
Secobarbital	100	Butalbital	800
Allobarbital	400	Butethal	60
	200	G 1 1 1 1 1 1 1	120

Number: H10110554000 REV1.0 Effective date: 2024-6-12 Page 2/4

120

Cyclopentobarbital

Pentobarbital

Aprobarbital	60	Phenobarbital	600
Butabarbital	30		
BAR 50 -Related Compounds			
Secobarbital	50	Butalbital	400
Allobarbital	200	Butethal	30
Alphenal	100	Cyclopentobarbital	60
Amobarbital	100	Pentobarbital	150
Aprobarbital	30	Phenobarbital	300
Butabarbital	15		
BUP 5 -Related Compounds			
Buprenorphine	5	Norbuprenorphine	10
Buprenorphine Glucuronide	10	Norbuprenorphine–3–β–D–Glucuronide	200
Buprenorphine–3–β–D–Glucuronide	5		
BZO 10 -Related Compounds			
Oxacepam	10	Flunitrazepam	10
Alprazolam	15	Flurazepam	10
Bromazepam	8	Lorazepam	20
Chlordiazepoxide	10	Medazepam	10
Clonazepam	40	Nitrazepam	10
Clorazepate	20	Nordiazepam	6
Clbazam	6	Prazepam	20
Diazepam	15	Temazepam	8
Estazolam	10	Triazola	15
Desalkyflurazepam	8		
BZO 50 -Related Compounds		77	70
Oxacepam	50	Flunitrazepam	50
Alprazolam	75	Flurazepam	50
Bromazepam	40	Lorazepam	100
Chlordiazepoxide	50	Medazepam	50
Clonazepam	200	Nitrazepam	50
Clorazepate	100	Nordiazepam	30
Clbazam	30	Prazepam	100
Diazepam	75	Temazepam	40
Estazolam	50	Triazola	75
Desalkyflurazepam BZO 100 -Related Compounds	40		
Oxacepam	100	Midazolam	4000
Alprazolam	50	Nitrazepam	50
Bromazepam	500	Norchlordiazepoxide	50
Chlordiazepoxide	100	Nordiazepam	150
Clobazam	50	Temazepam	75
Clonazepam	1000	Triazolam	800
Clorazepat	1000	Flurazepam	>10,000
Diazepan	100	Prazepam	>10,000
Estazolam	750	Lormetazepam	500
Desalkyflurazepam	100	Lormetazepam	500
COC 20 -Related Compounds	100		
Cocaine	20	Ecgonine	100,000
Benzoylecgonine	200	Ecgonine methyl ester	10,000
COC 30 -Related Compounds		· @ · · · · · · · · · · · · · · · · · ·	,500
Cocaine	30	Ecgonine	>100000
Benzoylecgonine	300	Ecgonine methyl ester	30,000
COC 50 -Related Compounds		<u> </u>	,,,,,,
Cocaine	50	Ecgonine	>100,000
Benzoylecgonine	500	Ecgonine methyl ester	50,000
COT 30 -Related Compounds	200		20,000
Cotinine	30	Buprenorphine	>100,000
	20		100,000
COT 50 -Related Compounds	70	Buprenorphine	>100,000
	50		
Cotinine	50		
Cotinine DIA 10-Related Compounds		Estazolam	50
Cotinine DIA 10-Related Compounds Diazepam	10	Estazolam Flurazenam	50 >50,000
Cotinine DIA 10-Related Compounds Diazepam Oxazepam	10 450	Flurazepam	>50,000
COT 50 -Related Compounds Cotinine DIA 10-Related Compounds Diazepam Oxazepam Alprazolam Bromazepam	10 450 100	Flurazepam Flurazepam	
Cotinine DIA 10-Related Compounds Diazepam Oxazepam	10 450	Flurazepam	>50,000 250

Clanazanam	5000	Drogonom	100
Clorazepam	100	Prazepam	100 25
Clorazepate		Temazepam Triogolom	1000
Desalkyflurazepam	1000	Triazolam	1000
EDDP 20 -Related Compounds	20	THE P. P.	20.000
EDDP	20	Phencyclidine	20,000
Meperidine	20,000	Promazine	10,000
Methadone	20,000	Promethazine	5,000
Norfentanyl	20,000	Prothipendyl	10,000
FYL 10 -Related Compounds			
Fentanyl	10		
GAB 2000 -Related Compounds			
Gabapentin	2,000	Pregbalin	>100,000
HMO 30 -Related Compounds			
Hydromorphone	30	Morphine	100
Acetylcodeine	500	6-Monoacetylmorphine	1000
Buprenorphine	>10,000	Morphine-3-glucuronid	200
Codeine	400	Thebaine	>20,000
Diacetyl Morphin	1000	Methadone	>100,000
Dihydrocodeine	500	Oxazepam	>100,000
	250	=	100,000
Ethylmorphine Hydrocodone	100	Oxycodone EDDP	>100,000
	100	LDDI	~100,000
K2 20 -Related Compounds	20	IVIII 072 4 Determine	20
JWH-018 5-pentanoic	20	JWH-073 4-Butanoic	20
K2 30 -Related Compounds			
JWH-018-5 pentanoic	30	JWH-250 5-Hydroxypentyl	>10,000
JWH-073-4 Butanoic	30		
K2 50 -Related Compounds			
JWH-018 5-pentanoic	50	JWH-018 5-pentanoic	50
K4 30 related compounds			
UR-144 5-Pentanoic acid metabolite	30	AB- FUBINACA	>10,000
UR-144 4-hydroxypentyl	50	AB-PINACA 4-hydroxypentyl	>10,000
UR-144 5-hydroxypentyl	50	APINACA	>10,000
UR-144	>10,000	APINACA 5-hydroxypentyl	>10,000
XLR-11	>10,000	ADB-PINACA N-(5-hydroxypentyl)	>10,000
AB- PINACA	>10,000	ADB-PINACA Pentanoic Acid	>10,000
AB-PINACA 5-Pentanoic	>10,000	5-fluoro AB-PINACA N-(4-hydroxypentyl)	>10,000
AB-PINACA 5-hydroxypentyl	>10,000	5-fluoro AB-PINACA	>10,000
KET 30 -Related Compounds	× 10,000	5-Huoro Ab-l INACA	> 10,000
	30	D. Namura and have	> 10000
Ketamine(KET)		D-Norpropoxyphene	>10000
Norketamine	30	Meperidine	>10000
Dextromethorphan	>10000	Mephentermine hemisulfate salt	>10000
Dextrorphan tartrate	>10000		
KET 50 -Related Compounds			
Ketamine(KET)	50	D-Methamphetamine	>10000
Norketamine	50	3,4-Methylenedioxyethylamphetamine	>10000
Norketannie	50	(MDEA)	× 10000
Dextromethorphan	>10000	Nordoxepin hydrochloride	>10000
Dextrorphan tartrate	>10000	Phencyclidine	>10000
D-Norpropoxyphene	>10000	Promazine	>10000
Meperidine	>10000	Promethazine	>10000
Mephentermine hemisulfate salt	>10000		
KET 100 -Related Compounds			
Ketamine(KET)	100	D-Methamphetamine	1500
		3,4-Methylenedioxyethylamphetamine	
Norketamine	100	(MDEA)	3,000
Dextromethorphan	50	Nordoxepin hydrochloride	3,000
Dextrorphan tartrate	50	Phencyclidine	400
D-Norpropoxyphene	3,000	Promazine	800
Meperidine	1500	Promethazine	2,500
Mephentermine hemisulfate salt	2,000		
MDMA 40 -Related Compounds			
3,4-Methylenedioxymethamphetamine(40	Paramethoxyamphetamine (PMA)	1,200
MDMA)		• • • • • • •	
3,4-Methylenedioxyamphetamine	200	Paramethoxymethamphetamine(PMMA)	120
(MDA)		· · · · · · · · · · · · · · · · · · ·	
3,4-Methylenedioxyethylamphetamine	50		

MDMA 50 -Related Compounds			
3,4-Methylenedioxymethamphetamine(MDMA)	50	Paramethoxyamphetamine (PMA)	1,600
3,4-Methylenedioxyamphetamine (MDA)	250	Paramethoxymethamphetamine(PMMA)	160
3,4-Methylenedioxyethylamphetamine (MDEA)	60		
MDPV 50 -Related Compounds			
3,4-Methylenedioxypyrovalerone	50	Pyrovalerone	>100,000
Desmethyl Pyrovalerone HCI	3000	•	
MEP 100 -Related Compounds			
Mephedrone	100		
MET 35 -Related Compounds		242544	
D-Methamphetamine	35	3,4-Methylenedioxymethamphetamine (MDMA)	50
Fenfluramine	2800	Mephentermine	200
L-Methamphetamine	500	PMMA	40
L-Phenylephrine	2500	Procaine	2500
MDEA MET 40 -Related Compounds	300		
		3,4-Methylenedioxymethamphetamine	
D-Methamphetamine	40	(MDMA)	60
Fenfluramine	2,500	Mephentermine	150
L-Methamphetamine	400	PMMA	40
L-Phenylephrine	2,000	Procaine	2,000
MDEA	300		
MET 50 -Related Compounds		2.4.36.4.1	
D-Methamphetamine	50	3,4-Methylenedioxymethamphetamine (MDMA)	75
Fenfluramine	3,000	Mephentermine	200
L-Methamphetamine	500	PMMA	50
L-Phenylephrine	2,500	Procaine	2,500
MDEA	400		
MTD 30 -Related Compounds		2 Eshadidana 1 & dimashad 2 2 dimbanahan	
Methadone	30	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyr olidine (EDDP)	10,000
Alpha-Methadol	125	Phencyclidine	12,500
Biperiden	80,000	Pheniramine	25,000
Doxylamine	12,500		
MTD 50 -Related Compounds		2 Fd 11 15 F d 122 F1 1	
Methadone	50	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyr olidine (EDDP)	15,000
Alpha-Methadol	200	Phencyclidine	20,000
Biperiden	100,000	Pheniramine	40,000
Doxylamine	20,000		
MQL 30 -Related Compounds			
Methaqualone	30		
OPI 20 -Related Compounds			
Morphine	20 50	6-Monoacetylmorphine (6-MAM)	25 50
Codeine Diacetylmorphine (Heroin)	50	Morphine-3- β-d-glucuronide Nalorphine	10,000
Ethylmorphine (Teroin)	24	Oxycodone	25,000
Hydrocodone	50	Oxymorphone	25,000
Hydromorphone	100	Thebaine	5,000
OPI 25 -Related Compounds			
Morphine	25	6-Monoacetylmorphine (6-MAM)	15
Codeine	8	Morphine-3- β-d-glucuronide	40
Diacetylmorphine (Heroin) Ethylmorphine	30	Nalorphine Oxycodone	8,000 15,000
Etnylmorphine Hydrocodone	15 25	Oxymorphone	15,000
Hydromorphone	80	Thebaine	3,000
OPI 40 -Related Compounds			
Morphine	40	6-Monoacetylmorphine (6-MAM)	25
Codeine	50	Morphine-3- β-d-glucuronide	50
Diacetylmorphine (Heroin)	50	Nalorphine	10,000

Number: H10110554000 REV1.0 Effective date: 2024-6-12 Page 3/4

Ethylmorphine	24	Oxycodone	25,000
Hydrocodone	50	Oxymorphone	25,000
Hydromorphone	100	Thebaine	5,000
OPI 50 -Related Compounds	100	Thebanic	3,000
Morphine	50	6-Monoacetylmorphine (6-MAM)	60
Codeine	15	Morphine-3- β-d-glucuronide	60
Diacetylmorphine (Heroin)	60	Nalorphine	12,500
Ethylmorphine (Teroin)	30	Oxycodone	31,250
Hydrocodone	60	Oxymorphone	31,250
Hydromorphone	125	Thebaine	6,250
OXY 20 -Related Compounds			-,
Oxycodone	20	Naloxone	3,000
Hydrocodone	500	Oxymorphone	20
Hydromorphone	3,000	y	
OXY 40 -Related Compounds			
Oxycodone	40	Naloxone	6,250
Hydrocodone	1,000	Oxymorphone	40
Hydromorphone	6,250		
PCP 10 -Related Compounds			
Phencyclidine (PCP)	10	Morphine-3- β-d-glucuronide	20,000
Hydrocodone	2,000	Nalorphine	10,000
Hydromorphone	2,000		
PGB 500 -Related Compounds			
Pregabalin	500	Gabapentin	>20,000
PPX 40 -Related Compounds			
Propoxyphene (PPX)	40	D-Norpropoxyphene	200
PPX 50 -Related Compounds			
Propoxyphene (PPX)	50	D-Norpropoxyphene	200
TCA 100 -Related Compounds			
Nortriptyline	100		
THC 12 -Related Compounds			
11-nor-Δ9 -THC-9 COOH	12	△ 9-Tetrahydrocannabinol	4,000
△ 8-Tetrahydrocannabinol	2,000	11-hydroxy-Δ9 -THC	300
THC 25 -Related Compounds			
11-nor-Δ9-THC-9-COOH	25	△ 9-Tetrahydrocannabinol	7,500
11-nor-Δ8-THC-9-COOH	15	Cannabinol	>10000
△ 8-Tetrahydrocannabinol	7,500		
THC parent 40 -Related Compounds			
△ 9-Tetrahydrocannabinol	40	11-hydroxy-∆9 -THC	300
△ 8-Tetrahydrocannabinol	75	Cannabinol	2,000
11-nor-Δ9 -THC-9 COOH	12	Cannabidiol	>10,000
THC parent 50 -Related Compounds			
△ 9-Tetrahydrocannabinol	50	11-hydroxy-Δ9 -THC	300
△ 8-Tetrahydrocannabinol	75	Cannabinol	2,000
11-nor-Δ9 -THC-9 COOH		and the second s	
TML 30 -Related Compounds	12	Cannabidiol	>10,000

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 Multi-drug Saliva Test Cup when tested at concentrations up to 100 ug/ml.

30

Tramadol

(-)-Ephedrine (Except MET)	Chlorpheniramine	Oxalic Acid
(+)-Naproxen	Creatine	Penicillin-G
(+/-)-Ephedrine (Except MET)	Dextromethorphan (Except KET)	Pheniramine
4-Dimethyllaminoantiyrine	Dextrorphan tartrate (Except KET)	Phenothiazine
Acetaminophen	Dopamine	Procaine
Acetone	Erythromycin	Protonix
Albumin	Ethanol	Pseudoephedrine
Amitriptyline	Furosemide	Quinidine
Ampicillin	Glucose	Ranitidine
Aspartame	Guaiacol Glyceryl Ether	Sertraline
Aspirin	Hemoglobin	Tyramine
Benzocaine	Imipramine	Trimeprazine
Bilirubin	(+/-)-Isoproterenol	Venlafaxine

b-Phenylethyl-amine Methadone Ibuprofen Caffeine Vitamin C (Ascorbic Acid) Lidocaine

Chloroquine (Except MET)

For ALC test:

The following substances may interfere with the Saliva Alcohol Test when using samples other than saliva. The named substances do not normally appear in sufficient quantity in saliva to interfere with the test.

- A. Agents which enhance color development
- Peroxidases
- · Strong oxidizers
- B. Agents which inhibit color development
- Reducing agents: Ascorbic acid, Tannic acid, Pyrogallol, Mercaptans and tosylates, Oxalic acid, Uric Acid.
- Bilirubin
- L-dopa
- L-methyldopa
- Methampyrone

LITERATURE REFERENCES

- Moolchan, E., et al, "Saliva and Plasma Testing for Drugs of Abuse: Comparison of the Disposition and Pharmacological Effects of Cocaine", Addiction Research Center, IRP, NIDA, NIH, Baltimore, MD. As presented at the FOFT-TIAFT meeting October 1998.
- Jenkins, A.J., Oyler, J.M. and Cone, E.J. Comparison of Heroin and Cocaine Concentrations in Saliva with Concentrations in Blood and Plasma. J. Anal. Toxicology. 19: 359-374 (1995).
- Kidwell, D.A., Holland, J.C., Athanaselis, S. Testing for Drugs of Abuse in Saliva and Sweat. J. Chrom. B. 713: 111-135 (1998).
- Baselt RC. Disposition of Toxic Drugs and Chemicals in Man. 2nd ed. Davis: Biomedical Publications; 1982.
- Hawks RL, Chiang CN, eds. Urine Testing for Drugs of Abuse. Rockville: Department of Health and Human Services, National Institute of Drug Abuse; 1986.
- Substance Abuse and Mental Health Services Administration. Mandatory Guidelines for Federal Workplace Drug Testing Programs. 53 Federal Register; 1988
- McBay AJ. Drug-analysis technology—pitfalls and problems of drug testing. Clin Chem. 1987 Oct; 33 (11 Suppl):33B-40B.
- Gilman AG, Goodman LS, Gilman A, eds. Goodman and Gilman's The Pharmacological Basis of Therapeutics. 6th ed. New York: Macmillan;1980.

	GLOSSARY OF SYMBOLS				
REF	Catalog number	4	Temperature limitation		
	Consult instructions for use	LOT	Batch code		
IVD	In vitro diagnostic medical device	8	Use by		
-	Manufacturer	2	Do not reuse		

Manufactured for:

American Screening, LLC

9742 St. Vincent Ave Ste 100, Shreveport, LA 71106

Customer Service Phone: 866-526-2873

Number: H10110554000 REV1.0 Effective date: 2024-6-12 Page 4/4