PRECISION Saliva Scan[®] For Forensic use only

The Oral Screen Saliva Drug Test 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)
Amphetamine (AMP)	D-Amphetamine	40/50
Barbiturate(BAR)	Secobarbital	50
Benzodiazepine (BZO)	Oxazepam	10/50
Buprenorphine(BUP)	Buprenorphine	5
Cocaine (COC)	Cocaine	20/30/50
Cotinine(COT)	Cotinine	50
MEP	Mephedrone	100
MQL	Methaqualone	30
MDPV	3,4-Methylenedioxypyrovalerone	50
EDDP(EDDP)	2-Ethyliden-1,5-Dimethyl-3,3-Dip henylpyrrolidine	20
K2	JWH-018/JWH-073	30
Ketamine (KET)	Ketamine	50/100
Methadone (MTD)	Methadone	30/50
Fentanyl(FYL)	Fentanyl	10
Tricyclic Antidepressants(TCA)	Nortriptyline	100
Methamphetamine (MET)	D-Methamphetamine	50/40
Ecstasy (MDMA)	3,4-Methylenedioxymethampheta mine	50/40
6-MAM	6-Monoacetylmorphine	10
Opiates (OPI)	Morphine	25/40/50
Oxycodone(OXY)	Oxycodone	20/40
Phencyclidine (PCP)	Phencyclidine	10
Propoxyphene(PPX)	Propoxyphene	50
Marijuana (THC)	11-nor-∆ ⁹ -THC-9-COOH	12
Marijuana (THC parent)	Δ^9 -THC	30/50
Tramadol(TRA)	Tramadol	30
Alcohol (ALC)	Alcohol	0.02%

PRINCIPLE

The Oral Screen Saliva Drug Test 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

Individually packed screening devices Oral fluid collection swabs Package insert



PRECAUTIONS

Do not use after the expiration date indicated on the package. Do not use the test if the foil pouch is

· 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

· Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens

STORAGE AND STABILITY

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

If specimens are to be shipped, pack them in compliance with all applicable regulations for

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

Bring tests, specimens, and/or controls to room temperature (60-86°F or 15-30°C) before use.

indicator window of collection swab. Important: Do not bite, suck, or chew on the sponge

The oral fluid specimen should be collected using the collector provided with the kit. No other

Instruct the donor to not place anything in the mouth including food, drink, gum, or tobacco products

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

Remove the collection swab from the mouth and insert it, sponge first, into the screening device. Screw

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 5 minutes. Do not interpret the result after 20 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).

NOTE: After 7 minutes, proceed with the test below, even if color on the saturation indicator has not

SPECIMEN COLLECTION AND STORAGE

The Oral Screen Saliva Drug Test is intended for use with human oral fluid specimens only.

The kit should be stored at 36-86°F (2-30°C) until the expiry date printed on the sealed pouch

Used testing materials should be discarded in accordance with local regulations.

Timer

assaved

are assaved

Do not freeze

nackage insert

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For professional in vitro diagnostic use only.

Read the entire procedure carefully prior to testing.

· Humidity and temperature can adversely affect results.

· The test must remain in the sealed pouch until use.

equipment, containers or reagents can lead to false results.

Perform testing immediately after specimen collection.

Kits should be kept out of direct sunlight.

transportation of etiological agents

at least 10 minutes prior to specimen collection.

for at least 10 minutes prior to collection.

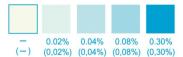
appeared in the indicator window

cap down tightly until fully locked

collection devices should be used with this assay.

damaged. Do not reuse tests.





negative

invalid

Other Drug Tests, read result at 5min

INTERPRETATION OF RESULTS

positive

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 Oral fluid specimens must be collected according to the directions in the Procedure section of this

- 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.
- 2. 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 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.

OUALITY 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

- The Oral Screen Saliva Drug Test is for professional in vitro diagnostic use, and should be only used for the qualitative detection of drugs of abuse in oral fluid.
- 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.
- 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
- A positive result indicates the presence of a drug/metabolite only, and does not indicate or measure intoxication
- 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 10 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.

invalid negative positive

Materials Provided

SalivaScar

PRECISION

 Ingestion or general use of over-the-counter medications and products containing alcohol can produce positive results. PERFORMANCE CHARACTERISTICS

A. Sensitivity A phosphate-buffered saline (PBS) pool was spiked with drugs to target concentrations of ± 50% cut-off and ± 25% cut-off and tested with The Oral Screen Saliva Drug Test. The results are summarized below.

Drug Conc.	n	A	мр	B	BUP		20	COC	
(Cut-off range)	п	-	+	-	+	-	+	-	+
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	30	0	28	2	30	0	29	1
Cut-off	30	12	18	11	19	14	16	12	18
+25% Cut-off	30	2	28	8	22	4	26	2	28
+50% Cut-off	30	0	30	0	30	0	30	0	30
· boro cut on	50	0	50	Ū	50	Ū	50	0	
Drug Conc.	n	C	-	ED		K		MI	
(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	30	0	30	0	27	3	30	0
Cut-off	30	11	19	13	17	9	21	13	17
+25% Cut-off	30	1	29	2	28	3	27	3	27
+50% Cut-off	30	0	30	0	30	0	30	0	30
Drug Conc.		M	OR	M	TD	02	XY	PC	CP .
(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	28	2	30	0	28	2	28	2
Cut-off	30	10	20	10	20	10	20	11	19
+25% Cut-off	30	9	21	2	28	4	26	5	25
+50% Cut-off	30	Ó	30	0	30	0	30	0	30
	1					ţ		, ,	
Drug Conc.	n	TI	IC	THC	parent	BA		PP	
(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	30	0	30	0	27	3	30	0
Cut-off	30	10	20	10	20	9	21	10	20
+25% Cut-off	30	5	25	4	26	3	27	4	26
+50% Cut-off	30	0	30	0	30	0	30	0	30
	n	MD	MA	6-M	AM	MO	R25	K	2
Drug Conc.			+	-	+	-	+		+
Drug Conc. (Cut-off range)		-						-	
	30	- 30	0	30	0	30	0	30	0
(Cut-off range) 0% Cut-off		- 30 30	0	30 30	0	30 30	0	30 30	
(Cut-off range)	30		-		-				0
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off	30 30 30	30 25	0 5	30 30	0	30 26	0 4	30 26	0 0 4
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off Cut-off	30 30 30 30 30	30 25 14	0 5 16	30 30 15	0 0 15	30 26 13	0 4 17	30 26 10	0 0 4 20
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off Cut-off +25% Cut-off	30 30 30 30 30 30	30 25 14 4	0 5 16 26	30 30 15 2	0 0 15 28	30 26 13 9	0 4 17 21	30 26 10 4	0 0 4 20 26
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off Cut-off	30 30 30 30 30	30 25 14	0 5 16	30 30 15	0 0 15	30 26 13	0 4 17	30 26 10	0 0 4 20 26
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off Cut-off +25% Cut-off +50% Cut-off Drug Conc.	30 30 30 30 30 30	30 25 14 4 0	0 5 16 26 30 EP	30 30 15 2 0	0 0 15 28 30 QL	30 26 13 9	0 4 17 21 30	30 26 10 4	0 0 4 20 26 30
(Cut-off range) 0% Cut-off -50% Cut-off Cut-off +25% Cut-off +50% Cut-off +50% Cut-off Drug Conc. (Cut-off range)	30 30 30 30 30 30 30 30 n	30 25 14 4 0	0 5 16 26 30 EP +	30 30 15 2 0 M	0 0 15 28 30 QL +	30 26 13 9 0 MD	0 4 17 21 30 PV +	30 26 10 4 0 FY	0 0 4 20 26 30 */L +
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off +25% Cut-off +50% Cut-off Drug Conc. (Cut-off range) 0% Cut-off	30 30 30 30 30 30 30 30 30 30 30	30 25 14 4 0 M - 30	0 5 16 26 30 EP + 0	30 30 15 2 0 M 30	0 0 15 28 30 QL + 0	30 26 13 9 0 MD - 30	$ \begin{array}{r} 0 \\ 4 \\ 17 \\ 21 \\ 30 \\ \hline PV \\ + \\ 0 \\ \end{array} $	30 26 10 4 0 FY - 30	0 0 4 20 26 30 VL + 0
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off +25% Cut-off +50% Cut-off Drug Conc. (Cut-off range) 0% Cut-off -50% Cut-off	30 30 30 30 30 30 30 30 30 30 30 30	30 25 14 4 0 M - 30 30	0 5 16 26 30 EP + 0 0	30 30 15 2 0 M 30 30	0 0 15 28 30 QL + 0 0	30 26 13 9 0	$ \begin{array}{r} 0 \\ 4 \\ 17 \\ 21 \\ 30 \\ \hline PV \\ + \\ 0 \\ 0 \\ \end{array} $	30 26 10 4 0 FY - 30 30	0 0 4 20 26 30 7 L + 0 0
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off +25% Cut-off +50% Cut-off Drug Conc. (Cut-off range) 0% Cut-off	30 30 30 30 30 30 30 30 30 30 30	30 25 14 4 0 M - 30	0 5 16 26 30 EP + 0 0 10	30 30 15 2 0 M 30	0 0 15 28 30 QL + 0	30 26 13 9 0 ME - 30 30 22	0 4 17 21 30 PV + 0 0 8	30 26 10 4 0 FY - 30 30 22	0 0 4 20 26 30 VL + 0
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off +25% Cut-off +50% Cut-off Drug Conc. (Cut-off range) 0% Cut-off -50% Cut-off	30 30 30 30 30 30 30 30 30 30 30 30	30 25 14 4 0 M - 30 30	0 5 16 26 30 EP + 0 0	30 30 15 2 0 M 30 30	0 0 15 28 30 QL + 0 0	30 26 13 9 0	$ \begin{array}{r} 0 \\ 4 \\ 17 \\ 21 \\ 30 \\ \hline PV \\ + \\ 0 \\ 0 \\ \end{array} $	30 26 10 4 0 FY - 30 30	0 0 4 20 26 30 <i>X</i> L + 0 0 8
(Cut-off range) 0% Cut-off -50% Cut-off -25% Cut-off +25% Cut-off +50% Cut-off Drug Conc. (Cut-off range) 0% Cut-off -50% Cut-off -50% Cut-off	30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	30 25 14 4 0 M - 30 30 20	0 5 16 26 30 EP + 0 0 10	30 30 15 2 0 M - 30 30 12	0 0 15 28 30 QL + 0 0 18	30 26 13 9 0 ME - 30 30 22	0 4 17 21 30 PV + 0 0 8	30 26 10 4 0 FY - 30 30 22	0 0 4 20 26 30 7 L + 0 0 8 18
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+50% Cut-off 30 0 30 0 30

B. Specificity The following table lists the concentrations of compounds (in ng/ml) above which The Oral Screen Saliva Drug Test identified positive results at 10 minutes

L-Amphetamine3,0003,4-Methylenedioxyamphetamine (MDA)200 $(+)-3,4-Methylenedioxyamphetamine3,4-Methylenedioxyethylamphetamine50Phentermine30,000Paramethoxyamphetamine (PMA)1,200PMA100Paramethoxyamphetamine (PMA)1,200PMA100Paramethoxyamphetamine (PMA)1,200Tyramine2,500Estays 50-Related CompoundsAmphetamine 50-Related Compounds3,4-Methylenedioxyamphetamine (MDA)250D-Amphetamine4,000(MDEA)60(+)-3,4-Methylenedioxyamphetamine (MDA)150160Phentermine4,000Paramethoxyamphetamine (PMA)1,600Phentermine40,000Paramethoxyamphetamine (PMA)1,600Phentermine40,0003,4-Methylenedioxyprovalence50Barbiturate 50-Related CompoundsJoson3,64-Methylenedioxyprovalence50Barbiturate (BAR)3003,4-Methylenedioxyprovalence50Barbiturate (BAR)50Provalerone>100,0Anobarbital100Fenfluramine40Anobarbital100Fenfluramine40Anobarbital100Fenfluramine40Butabarbital150L-Methamphetamine40Cycloparbital30L-Methamphetamine40Butabarbital60Methamphetamine50Butabarbital60Methamphetamine50Burdenorphine-3-β-D-Fenfluramine50Burgenorphine-3-β-D-Fenfluramine50$	Amphetamine 40-Related Compo	unds	Ecstasy 40-Related Compounds	1
	D-Amphetamine	40		40
ne (MDA)120(MDEA)50Phentermine30,000Paramethoxyamphetamine (PMA)1,200PMA100Paramethoxyamphetamine (PMA)120Tyramine2,500Extasy 50-Related CompoundsAmphetamine 50-Related Compounds3,4-Methylenedioxyamphetamine (MDA)50D-Amphetamine503,4-Methylenedioxyamphetamine (MDA)50D-Amphetamine4,0003,4-Methylenedioxyamphetamine (MDA)160L-Amphetamine4,000Paramethoxyamphetamine (PMA)1,600Phentermine40,000Paramethoxyamphetamine (PMA)1,600PMA125MDFV 50-Related Compounds50Barbiturate 50-Related CompountsDesmethyl provalerone HCI3000Barbiturate 50-Related CompountsDesmethyl provalerone HCI3000Barbiturate (BAR)50Provalerone>100Alphenal100D-Methamphetamine40Amobarbital100Fenfluramine40Ambarbital100Genfluramine40Butabarbital15L-Phenylephrine2,000Butabarbital150Procaine2,000Butenhal3003,4-Methylenedioxymethamphetamine60Cyclopentobarbital60Mephetermine40Buprenorphine-5-RelatedFenfluramine40Buprenorphine-5-RelatedMDEA50Buprenorphine-5-RelatedFenfluramine50Buprenorphine-5-RelatedMDEA50Buprenorphine-5-RelatedFenfluramine	L-Amphetamine	3,000	3,4-Methylenedioxyamphetamine (MDA)	200
Phentermine $30,000$ Paramethoxyamphetamine (PMA) $1,200$ PMA100Paramethoxymethamphetamine(PMAA) 1200 Tyramine $2,500$ Ecstasy 50-Related CompoundsAmphetamine 50-Related Compounds $3,4$ -Methylenedioxymethamphetamine (MDA) 500 D-Amphetamine 500 $3,4$ -Methylenedioxymphetamine (MDA) 500 D-Amphetamine $4,000$ $3,4$ -Methylenedioxymphetamine (MDA) 600 (MDEA) $3,4$ -Methylenedioxymphetamine (MDA) 1600 Phentermine $4,000$ Paramethoxyamphetamine (PMA) $1,600$ Phentermine $40,000$ Paramethoxymethamphetamine(PMMA) 1600 PMA 125 MDPV 50-Related Compounds 500 PMA 125 MDPV 50-Related Compounds 5000 Barbiturate 50 -Related Compounds 9000 90000 Barbiturate (BAR) 50 Pyrovalerone $5100,000$ Barbiturate (BAR) 50 Desmethyl Pyrovalerone HCI 3000 Alphenal 100 D-Methamphetamine 400 Anobarbital 100 D-Methamphetamine 400 Butabarbital 150 L-Methylenedioxymethamphetamine 600 Butabarbital 150 Phocaine $2,000$ Burenorphine 5 D-Methamphetamine 50 Burenorphine 5 D-Methamphetamine 50 Burenorphine 5 D-Methamphetamine 500 Burenorphine 5 D-Methamphetamine 500 Burenorphine 5 D-Methamphetamine 500 Burenorp	(+)-3,4-Methylenedioxyamphetami		3,4-Methylenedioxyethylamphetamine	
Animetical DepositionDescription <th< td=""><td>ne (MDA)</td><td>120</td><td>(MDEA)</td><td>50</td></th<>	ne (MDA)	120	(MDEA)	50
Number Tyramine100Ecstasy 50-Related CompoundsAmphetamine 50-Related Compounds $3,4$ -Methylenedioxymethamphetamine(MDA) A) 50 D-Amphetamine 50 $3,4$ -Methylenedioxyamphetamine (MDA) 250 1Amphetamine $4,000$ $3,4$ -Methylenedioxyethylamphetamine (MDA) 60 (H) 2,3,4-Methylenedioxyamphetamine $40,000$ Paramethoxymethamphetamine (PMA) 160 Phanetermine $40,000$ Paramethoxymethamphetamine(PMAA) 160 PMA125MDPV 50-Related Compounds 50 Tyramine $3,000$ $3,4$ -Methylenedioxypyrovalerone 50 Barbiturate 50-Related CompountsDesmethyl Pyrovalerone HCI 3000 Barbiturate (BAR) 50 Pyrovalerone $100,0$ Anlobarbital 100 D-Methamphetamine 40 Ambarbital 100 D-Methamphetamine 40 Amobarbital 100 D-Methamphetamine 40 Butabritial 100 Fenfluramine 40 Amobarbital 30 L-Methamphetamine 40 Butabritial 15 L-Phenylephrine $2,000$ Butabritial 300 Procaine $2,000$ Butenhal 50 Methamphetamine 50 Burenorphine 5 D-Methamphetamine 50 Burenorphine 5 D-Methamphetamine 50 Butabritial 150 PMMA 40 Phenobarbital 50 D-Methamphetamine 50 Burenorphine 5 D-Methamphetamine 50	Phentermine	30,000	Paramethoxyamphetamine (PMA)	1,200
Amphetamine50-Related Compounds3,4-Methylenedioxymethamphetamine(MDM A)50D-Amphetamine503,4-Methylenedioxyamphetamine (MDA)250L-Amphetamine4,0003,4-Methylenedioxyamphetamine (MDA)60(+)-3,4-Methylenedioxyamphetamine(MDEA)60(+)-3,4-MethylenedioxyamphetamineParamethoxyamphetamine (PMA)160Phentermine40,000Paramethoxymethamphetamine(PMAA)160PMA125MDPV 50-Related Compounds50Tyramine3,0003,4-Methylenedioxypyrovalerone50Barbiturate 50-Related CompountsDesmethyl Pyrovalerone HCI3000Barbiturate (BAR)50Pyrovalerone100,0Albhenal100D-Methamphetamine40Amobarbital100Fenfluramine40Amobarbital100Fenfluramine40Aprobarbital100Methamphetamine40Butabarbital15L-Phenylephrine2,000Butabarbital30S-Methamphetamine40Penobarbital60Mphenal50Butethal300Procaine2,000Butethal50D-Methamphetamine50Burenorphine5D-Methamphetamine50Burenorphine5D-Methamphetamine50Burenorphine150PMMA40Phenobarbital300Procaine2,000Burenorphine5D-Methamphetamine50Burenorphine5D-Methamphetamine <td>PMA</td> <td>100</td> <td>Paramethoxymethamphetamine(PMMA)</td> <td>120</td>	PMA	100	Paramethoxymethamphetamine(PMMA)	120
A)S0D-Amphetamine503,4-Methylenedioxyamphetamine (MDA)250L-Amphetamine4,0003,4-Methylenedioxyamphetamine (MDA)250L-Amphetamine4,0003,4-Methylenedioxyethylamphetamine (PMA)1,600Paramethoxyamphetamine (PMA)1,6001501,600Phentermine40,000Paramethoxymethamphetamine(PMAA)1,600PMA125MDPV 50-Related Compounds50Barbiturate 50-Related CompountsDesmethyl Pyrovalerone50Barbiturate (BAR)50Provalerone2100,0Allobarbital100Penfuramine40Amobarbital100Fenfuramine40Amobarbital100Fenfuramine400Butabarbital15L-Phenylephrine2,000Butabarbital15L-Phenylephrine2,000Butabarbital303,4-Methylenedioxymethamphetamine40Opentobarbital303,4-Methylenedioxymethamphetamine40Butabarbital15L-Phenylephrine2,000Butethal303,4-Methylenedioxymethamphetamine40Cyclopentobarbital60Mephentermine50BurenorphineS-Related50Procaine2,000Burenorphine50D-Methamphetamine50Buprenorphine50Procaine2,000Buprenorphine50D-Methamphetamine50Buprenorphine50D-Methamphetamine50Buprenorphine50D-Methamphetamine	Tyramine	2,500	Ecstasy 50-Related Compounds	
L-Amphetamine3,4-Methylenedioxyethylamphetamine60(H)-3,4-MethylenedioxyamphetaminParamethoxyamphetamine (PMA)1,600Phenetrmine40,000Paramethoxymethamphetamine(PMA)160PMA125MDPV 50-Related Compounds50Tyramine3,0003,4-Methylenedioxypyrovalerone50Barbiturate 50-Related CompoundsDesmethyl Pyrovalerone HCI3000Barbiturate (BAR)50Pyrovalerone>100,0Allobarbital200Methamphetamine40Alphenal100D-Methamphetamine40Amobarbital100Fenfluramine2,500Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butabarbital30Methamphetamine60Cyclopentobarbital30Mephentermine150Butethal300Procaine2,000Butethal300Procaine2,000Butenbrital5D-Methamphetamine60Cyclopentobarbital300Procaine2,000Buprenorphine5 -RelatedMethamphetamine50Buprenorphine55D-Methamphetamine50Buprenorphine5D-Methamphetamine50Buprenorphine10L-Phenylephrine2,500Norbuperonphine10L-Phenylephrine50Buprenorphine5D-Methamphetamine50Buprenorphine5L-Methamphetamine50Buprenorphine </td <td>Amphetamine 50-Related Compo</td> <td>unds</td> <td></td> <td>50</td>	Amphetamine 50-Related Compo	unds		50
L-Amphetamine3,4-Methylenedioxyethylamphetamine60(H)-3,4-MethylenedioxyamphetaminParamethoxyamphetamine (PMA)1,600Phenetrmine40,000Paramethoxymethamphetamine(PMA)160PMA125MDPV 50-Related Compounds50Tyramine3,0003,4-Methylenedioxypyrovalerone50Barbiturate 50-Related CompoundsDesmethyl Pyrovalerone HCI3000Barbiturate (BAR)50Pyrovalerone>100,0Allobarbital200Methamphetamine40Alphenal100D-Methamphetamine40Amobarbital100Fenfluramine2,500Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butabarbital30Methamphetamine60Cyclopentobarbital30Mephentermine150Butethal300Procaine2,000Butethal300Procaine2,000Butenbrital5D-Methamphetamine60Cyclopentobarbital300Procaine2,000Buprenorphine5 -RelatedMethamphetamine50Buprenorphine55D-Methamphetamine50Buprenorphine5D-Methamphetamine50Buprenorphine10L-Phenylephrine2,500Norbuperonphine10L-Phenylephrine50Buprenorphine5D-Methamphetamine50Buprenorphine5L-Methamphetamine50Buprenorphine </td <td>D-Amphetamine</td> <td>50</td> <td>3,4-Methylenedioxyamphetamine (MDA)</td> <td>250</td>	D-Amphetamine	50	3,4-Methylenedioxyamphetamine (MDA)	250
ne (MDA)1501,600Phentermine $40,000$ Paramethoxymethamphetamine(PMMA)160PMA125MDPV 50-Related Compounds50Barbiturate 50-Related CompoundsDesmethyl Pyrovalerone HCI3000Barbiturate (BAR)50Pyrovalerone7100,00Allobarbital200Methamphetamine 40-Related Compounds0Alphenal100D-Methamphetamine40Anobarbital100Fenfluramine2,500Ayrobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butabarbital15L-Phenylephrine2,000Butabarbital60MDEA300Butethal30Procaine2,000Butethal300Procaine2,000Butethal50D-Methamphetamine60Cyclopentobarbital60Mephentermine150Pentobarbital300Procaine2,000Burenorphine5 -Related50D-Methamphetamine50Buprenorphine5 -Related50D-Methamphetamine50Buprenorphine10Fenfluramine50Buprenorphine3-PD-05L-Methamphetamine50Buprenorphine3-B-D-06MDEA400Norbuprenorphine-3- β -D-077Glucuronide10L-Phenylephrine2,500Norbuprenorphine-3- β -D-077Glucuronide10L-Phenylephrine2,500Norbupreno	L-Amphetamine	4,000	3,4-Methylenedioxyethylamphetamine	60
Phentermine $40,000$ Paramethoxymethamphetamine(PMMA) 160 PMA 125 MDPV 50-Related Compounds 50 Barbiturate 50-Related Compounds 3,000 3,4-Methylenedioxypyrovalerone 50 Barbiturate 50-Related Compounds 50 Pyrovalerone >100,0 Barbiturate (BAR) 50 Pyrovalerone >100,0 Allobarbital 200 Methamphetamine 40-Related Compounds 40 Almobarbital 100 Fenfluramine 40 Amobarbital 100 Fenfluramine 2,500 Aprobarbital 30 L-Methamphetamine 40 Butabarbital 15 L-Phenylephrine 2,000 Butabarbital 60 MEA MoEA 300 Cyclopentobarbital 60 Mephentermine 150 50 Burtenorphine5-Related 70 Procaine 2,000 Burtenorphine5-Related 70 Procaine 50 Buprenorphine5-Related 70 Fenfluramine 50 Buprenorphine3-Ap-D- <td>(+)-3,4-Methylenedioxyamphetami</td> <td></td> <td>Paramethoxyamphetamine (PMA)</td> <td></td>	(+)-3,4-Methylenedioxyamphetami		Paramethoxyamphetamine (PMA)	
Induction100100100PMA125MDPV 50-Related CompoundsTyramine3,0003,4-Methylenedioxypyrovalerone50Barbiturate 50-Related CompoundsDesmethyl Pyrovalerone HCI3000Barbiturate (BAR)50Pyrovalerone>100,0Barbiturate (BAR)200Methamphetamine 40-Related CompoundsAllobarbital200Methamphetamine40Amobarbital100Fenfluramine2,500Aprobarbital100Fenfluramine2,000Butabarbital15L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butethal30MDEA300Butethal30Procaine2,000Butethal300Procaine2,000Butethal300Procaine2,000Butenbrital150PMMA40Pentobarbital300Procaine2,000Buprenorphine5 -RelatedMethamphetamine 50-Related Compounds50Buprenorphine5 -RelatedS0S0S0Buprenorphine5D-Methamphetamine50Buprenorphine10Fenfluramine3,000Buprenorphine10Fenfluramine3,000Buprenorphine10L-Methamphetamine50Norbuprenorphine10L-Methamphetamine50Norbuprenorphine10L-Methamphetamine50Norbuprenorphine10L-Methamphetamine50Norbuprenorphi	ne (MDA)	150		1,600
InitialInitialSolutionTyramine $3,000$ $3,4$ -Methylenedioxypyrovalerone 50 Barbiturate 50-Related CompoundsDesmethyl Pyrovalerone HCI 3000 Barbiturate (BAR) 50 Pyrovalerone $>100,0$ Allobarbital 200 Methamphetamine 40-Related Compounds 40 Alphenal 100 D-Methamphetamine 40 Amobarbital 100 Fenfluramine $2,500$ Aprobarbital 30 L-Methamphetamine 400 Butabarbital 15 L-Phenylephrine $2,000$ Butethal 30 $3,4$ -Methylenedioxymethamphetamine 60 Cyclopentobarbital 60 Mephentermine 150 Pentobarbital 50 PMMA 40 Phenobarbital 300 Procaine $2,000$ Buprenorphine 5 D-Methamphetamine 50 Buprenorphine 5 D-Methamphetamine 50 Buprenorphine 5 D-Methamphetamine 50 Buprenorphine 5 D-Methamphetamine 50 Buprenorphine 10 Fenfluramine 50 Norbuprenorphine 10 L-Phenylephrine $2,500$ Norbu	Phentermine	40,000	Paramethoxymethamphetamine(PMMA)	160
Training1000Description3000Barbiturate 50-Related CompoundsDescription $>100,0$ Barbiturate (BAR)50Pyrovalerone $>100,0$ Allobarbital200Methamphetamine 40-Related Compounds $>100,0$ Alphenal100D-Methamphetamine40Amobarbital100Fenfluramine $2,500$ Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine $2,000$ Butabarbital15L-Phenylephrine $2,000$ Butabarbital303,4-Methylenedioxymethamphetamine (MDMA) 60 Cyclopentobarbital60Mephentermine 150 Pentobarbital150PMMA 40 Phenobarbital300Procaine $2,000$ Buprenorphine5 - Related CompoundsD-Methamphetamine 50 Buprenorphine5D-Methamphetamine 50 Buprenorphine10Fenfluramine 50 Buprenorphine10L-Phenylephrine 500 Norbuprenorphine10L-Phenylephrine $2,500$ Norbuprenorphine10L-Phenylephrine 500 Norbuprenorphine200MDEA400Benzodiazepine 10-Related Compounds $3,4-Methylenedioxymethamphetamine500Norbuprenorphine10L-Phenylephrine2,500Norbuprenorphine10L-Phenylephrine2,500Norbuprenorphine10L-Phenylephrine2,500Norbuprenorphi$	PMA	125	MDPV 50-Related Compounds	
Barbiturate (BAR)50Pyrovalerone5100,0 0Barbiturate (BAR)50Pyrovalerone5100,0 0Allobarbital200Methamphetamine 40-Related CompoundsAlphenal100Fenfluramine2,500Amobarbital100Fenfluramine2,500Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butabarbital400MDEA300Butethal303,4-Methylenedioxymethamphetamine (MDMA)60Cyclopentobarbital60Mephentermine150Pentobarbital300Procaine2,000Buprenorphine5 - Related CompoundsMethamphetamine 50-Related Compounds50Buprenorphine5D-Methamphetamine (MDMA)50Buprenorphine10Fenfluramine500Norbuprenorphine10L-Methamphetamine (MDMA)500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine2,500Norbuprenorphine10L-Methamphetamine2,500Norbuprenorphin	Tyramine	3,000	3,4-Methylenedioxypyrovalerone	50
Barbiturate (BAR)50Image: Constraint of the second	Barbiturate 50-Related Compoun	ds	Desmethyl Pyrovalerone HCI	3000
Alphenal100D-Methamphetamine40Alphenal100Fenfluramine2,500Amobarbital100Fenfluramine2,500Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butabarbital400MDEA300Butethal303,4-Methylenedioxymethamphetamine (MDMA)60Cyclopentobarbital60Mephentermine150Pentobarbital150PMMA40Phenobarbital300Procaine2,000Buprenorphine5-RelatedMethamphetamine 50500Buprenorphine5D-Methamphetamine50Buprenorphine10Fenfluramine500Buprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine200MDEA400Benzodiazepine 10-Related200MDEA400Benzodiazepine 10-Related200MDEA400Alprazolam10Mephentermine200Alprazolam10Mephentermine200	Barbiturate (BAR)	50	Pyrovalerone	>100,00 0
A mobarbital100Fenfluramine10Amobarbital100Fenfluramine2,500Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butalbital400MDEA300Butethal30 $3,4$ -Methylenedioxymethamphetamine (MDMA)60Cyclopentobarbital60Mephentermine150Pentobarbital150PMMA40Phenobarbital150PMMA40Buprenorphine5 - Related Compounds2,000Methamphetamine 50-Related CompoundsBuprenorphine5D-Methamphetamine50Buprenorphine10Fenfluramine50Buprenorphine10Fenfluramine50Norbuprenorphine10L-Methamphetamine50Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine500Norbuprenorphine10L-Methamphetamine2,000Benzodiazepine 10-Related3,4-Methylenedioxymethamphetamine600Compounds10MDEA400Benzodiazepine 10-Related2,000MDEA400Alprazolam10Mephentermine200	Allobarbital	200	Methamphetamine 40-Related Compounds	
Amobarbital100Fenfluramine2,500Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butabarbital400MDEA300Butethal30 $3,4$ -Methylenedioxymethamphetamine (MDMA)60Cyclopentobarbital60Mephentermine150Pentobarbital150PMMA40Pentobarbital300Procaine2,000Buprenorphine5 - Related CompoundsMethamphetamine 50-Related Compounds50Buprenorphine5D-Methamphetamine50Buprenorphine5L-Methamphetamine50Buprenorphine10Fenfluramine50Buprenorphine10L-Methamphetamine50Buprenorphine200MDEA400Buprenorphine10L-Methamphetamine50Buprenorphine10L-Methamphetamine50Buprenorphine10L-Methamphetamine50Rucuronide5L-Methamphetamine500Norbuprenorphine200MDEA400Benzodiazepine 10-Related Compounds3,4-Methylenedioxymethamphetamine (MDMA)75Oxacepam10Mephentermine200Alprazolam15PMMA50	Alphenal	100	D-Methamphetamine	40
Aprobarbital30L-Methamphetamine400Butabarbital15L-Phenylephrine2,000Butabarbital400MDEA300Butethal30 $3,4$ -Methylenedioxymethamphetamine (MDMA)60Cyclopentobarbital60Mephentermine150Pentobarbital150PMMA40Phenobarbital300Procaine2,000Buprenorphine5 -Related CompoundsMethamphetamine 50-Related Compounds50Buprenorphine5D-Methamphetamine50Buprenorphine10Fenfluramine500Buprenorphine5L-Methamphetamine500Norbupenorphine10L-Methamphetamine500Norbupenorphine10L-Methamphetamine500Norbupenorphine10L-Methamphetamine500Norbupenorphine10L-Methamphetamine500Norbupenorphine10L-Methamphetamine500Norbupenorphine10L-Methamphetamine500Norbupenorphine10L-Methamphetamine500Norbupenorphine10L-Methamphetamine2,500Norbupenorphine200MDEA400Benzodiazepine 10-Related3,4-Methylenedioxymethamphetamine200MDEA10Mephentermine200Alprazolam10Mephentermine200	Amobarbital	100		2,500
Butabarbital 15 L-Phenylephrine 2,000 Butabital 400 MDEA 300 Butethal 30 3 ,4-Methylenedioxymethamphetamine (MDMA) 60 Cyclopentobarbital 60 Mephentermine 150 Pentobarbital 150 PMMA 40 Phenobarbital 300 Procaine 2,000 Buprenorphine5 - Related Methamphetamine 50-Related Compounds 2,000 Buprenorphine 5 D-Methamphetamine 50 Buprenorphine 10 Fenfluramine 500 Norbuprenorphine-3- β -D- L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine 200 MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine (MDMA) 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 400	Aprobarbital	30		400
Butalbital 400 MDEA 300 Butethal 30 $3,4$ -Methylenedioxymethamphetamine (MDMA) 60 Cyclopentobarbital 60 Mephentermine 150 Pentobarbital 150 PMMA 40 Phenobarbital 300 Procaine 2,000 Buprenorphine5 - Related Methamphetamine 50-Related Compounds 2,000 Buprenorphine 5 D-Methamphetamine 50 Buprenorphine Glucuronide 10 Fenfluramine 3,000 Buprenorphine-3- β -D- L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine-3- β -D- MDEA 400 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine 500 Oxacepam 10 MDEA 400 Alprazolam 10 Mephentermine 200	Butabarbital	15		2 000
Butethal303.4-Methylenedioxymethamphetamine (MDMA)500Butethal303.4-Methylenedioxymethamphetamine (MDMA)60Cyclopentobarbital60Mephentermine150Pentobarbital150PMMA40Phenobarbital300Procaine2,000Buprenorphine5 - Related CompoundsMethamphetamine 50-Related Compounds2,000Buprenorphine5D-Methamphetamine50Buprenorphine10Fenfluramine3,000Buprenorphine-3- β -D- Glucuronide10L-Methamphetamine500Norbuprenorphine-3- β -D- Glucuronide10L-Phenylephrine2,500Norbuprenorphine10L-Phenylephrine2,500Norbuprenorphine10L-Phenylephrine2,500Norbuprenorphine10MDEA400Benzodiazepine 10-Related Compounds3,4-Methylenedioxymethamphetamine (MDMA)75Oxacepam10Mephentermine200Alprazolam15PMMA50	Butalbital	400		1
Cyclopentobarbital 60 Mephentermine 150 Pentobarbital 150 PMMA 40 Phenobarbital 300 Procaine 2,000 Buprenorphine5 - Related Methamphetamine 50-Related Compounds 2,000 Buprenorphine 5 D-Methamphetamine 50 Buprenorphine Glucuronide 10 Fenfluramine 3,000 Buprenorphine-3- β -D- L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine-3- β -D- MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine 200 Alprazolam 15 PMMA 50	Butethal		3,4-Methylenedioxymethamphetamine	
Pentobarbital 150 PMMA 40 Phenobarbital 300 Procaine 2,000 Buprenorphine5 -Related Methamphetamine 50-Related Compounds 2,000 Buprenorphine 5 D-Methamphetamine 50 Buprenorphine Glucuronide 10 Fenfluramine 3,000 Buprenorphine-3-β-D- 5 L-Methamphetamine 500 Robust Glucuronide 10 L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine-3-β-D- 6 MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 MMA 50	Cyclopentobarbital	60	Mephentermine	150
Phenobarbital 300 Procaine $2,000$ Buprenorphine5 -Related Methamphetamine 50-Related Compounds Compounds 50 D-Methamphetamine 50 Buprenorphine 10 Fenfluramine $3,000$ Buprenorphine-3- β -D- L -Methamphetamine 500 Norbuprenorphine 10 L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine $2,500$ Norbuprenorphine-3- β -D- $MDEA$ 400 3 ,4-Methylenedioxymethamphetamine Compounds 10 Methemphetamine 200 Altrazolam 10 Methemphetamine 200	Pentobarbital	150		
Buprenorphine5 -Related Methamphetamine 50-Related Compounds Buprenorphine 5 D-Methamphetamine 50 Buprenorphine Glucuronide 10 Fenfluramine 3,000 Buprenorphine Glucuronide 10 Fenfluramine 3,000 Buprenorphine-3- β -D- Image: Compound S Image: Compound S 50 Norbuprenorphine 10 Image: Compound S 500 Norbuprenorphine-3- β -D- Image: Compound S 500 Renzodiazepine 10-Related 200 MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 50	Phenobarbital	300		
Buprenorphine 5 D-Methamphetamine 50 Buprenorphine Glucuronide 10 Fenfluramine 3,000 Buprenorphine-3-β-D- Glucuronide 5 L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine-3-β-D- Glucuronide 200 MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine 75 Compounds 10 Mephentermine 200 Alprazolam 15 PMMA 50	Buprenorphine5 -Related	500		2,000
Buprenorphine Glucuronide 10 Fenfluramine 3,000 Buprenorphine-3- β -D- L-Methamphetamine 500 Rorburgenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine-3- β -D- MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine 75 Compounds 10 Mephentermine 200 Alprazolam 15 PMMA 50	Buprenorphine	5	D-Methamphetamine	50
Buprenorphine–3–β–D– L-Methamphetamine 500 Glucuronide 5 L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine–3–β–D– MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine (MDMA) 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 50	* *		*	
Glucuronide 5 L-Methamphetamine 500 Norbuprenorphine 10 L-Phenylephrine 2,500 Norbuprenorphine-3-β-D- MDEA 400 Glucuronide 200 MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine (MDMA) 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 50	Buprenorphine-3-β-D-			5,000
Norbuprenorphine–3–β–D– 200 MDEA 400 Glucuronide 200 MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine (MDMA) 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 50	Glucuronide	5	L-Methamphetamine	500
Glucuronide 200 MDEA 400 Benzodiazepine 10-Related 3,4-Methylenedioxymethamphetamine (MDMA) 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 50	Norbuprenorphine	10	L-Phenylephrine	2,500
Benzodiazepine 10-Related Compounds 3,4-Methylenedioxymethamphetamine (MDMA) 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 5	Norbuprenorphine-3			
Compounds (MDMA) 75 Oxacepam 10 Mephentermine 200 Alprazolam 15 PMMA 50	Glucuronide	200		400
Alprazolam 15 PMMA 50	Benzodiazepine 10-Related Compounds			75
	Oxacepam	10	Mephentermine	200
Bromazepam 8 Procaine 2 500	Alprazolam	15	РММА	50
	Bromazepam	8	Procaine	2,500

Chlordiazepoxide	10	MEP 100-Related Compounds	
Clonazepam	40	Mephedrone	100
Clorazepate	20	MQL -Related Compounds	
Clbazam	6	Methaqualone	30
Diazepam	15	Methadone 30 -Related Compounds	
Estazolam	10	Methadone	30
Desalkyflurazepam	8	Alpha-Methadol	125
Flunitrazepam	10	Biperiden	80,000
Flurazepam	10	Doxylamine	12,500
Lorazepam	20	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyroli dine (EDDP)	10,000
Medazepam	10	Phencyclidine	12,500
Nitrazepam	10	Pheniramine	25,000
Nordiazepam	6	Methadone 50 -Related Compounds	
Prazepam	20	Methadone	50
Temazepam	8	Alpha-Methadol	200
Triazola	15	Biperiden	100,00
Benzodiazepine 50-Related			
Compounds		Doxylamine	20,000
Oxacepam	50	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyroli dine (EDDP)	15,000
Alprazolam	75	Phencyclidine	20,000
Bromazepam	40	Pheniramine	
Chlordiazepoxide	50	Opiates25 -Related Compounds	
Clonazepam	200	Morphine	25
Clorazepate	100	Codeine	8
Clbazam	30	Diacetylmorphine (Heroin)	30
Diazepam	75	Ethylmorphine	15
Estazolam	50	Hydrocodone	25
Desalkyflurazepam	40	Hydromorphone	80
Flunitrazepam	50	6-Monoacetylmorphine (6-MAM)	15
Flurazepam	50	Morphine-3- β-d-glucuronide	40
Lorazepam	100	Nalorphine	8,000
Medazepam	50	Oxycodone	15,000
Nitrazepam	50	Oxymorphone	15,000
Nordiazepam	30	Thebaine	3,000
Prazepam	100	Opiates 40-Related Compounds	
Temazepam	40	Morphine	40
Triazola	75	Codeine	50
Cocaine 20-Related Compounds		Diacetylmorphine (Heroin)	50
Cocaine	20	Ethylmorphine	24
Benzoylecgonine	200	Hydrocodone	50
Ecgonine	100,000	Hydromorphone	100
Ecgonine methyl ester	10,000	6-Monoacetylmorphine (6-MAM)	25

Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000 Cocaine S0-Related Compounds Opiates 50 - Related Compounds 50 Cocaine 50 Morphine 50 Benzoylecgonine 500 Codeine 15 Ecgonine 50 Diacety/Imorphine (Heroin) 60 Ecgonine 0 Ethylmorphine (Heroin) 60 Cotinine S0-Related Compounds Hydrocodone 60 Cotinine 50 Hydromorphone 125 Buprenorphine 0 6-Monoacety/Imorphine (G-MAM) 60 EDDP 20 Nalorphine 6.250 Merpinine 20,000 Oxycodone 31,250 Methadone 20,000 Oxycodone 31,250 Methadone 20,000 Oxycodone 31,250 Methadone 20,000 Oxycodone 20 Promethazine 5,000 Hydrocodone	Ketamine 100-Related Compound	s	D-Norpropoxyphene	200
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Image: Contract of the second seco			Nalorphine	10,000
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Cocaine 30 Nalorphine programmes/pr	Dextromethorphan	>10000	Phencyclidine (PCP)	10
Cocaine 30 Nalorphine prograde anoma 30 Benzoylecgonine 30 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000 Cocaine 50-Related Compounds Opiates 50 -Related Compounds 50 Benzoylecgonine 50 Morphine 50 Benzoylecgonine 50 Codeine 15 Ecgonine 50 Diacetylmorphine (Heroin) 60 Ecgonine 0 Ethylmorphine (Heroin) 60 Cotaine 50-Related Compounds Hydrocodone 60 Cotinine 50 Hydrocodone 125 Ecgonine >100,00 6-Monoacetylmorphine (6-MAM) 60 Buprenorphine 0 Goxycodone 31,250 Morphine-3 β-d-glucuronide 60 EDDP 20 Nalorphine 5,250 Meperidine 20,000 Oxycodone 21,250 Norfentanyl 20,000 Oxycodone				-
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Solution	Buprenorphine	>100,00 0	6-Monoacetylmorphine (6-MAM)	60
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000 Cocaine 50-Related Compounds Opiates 50 - Related Compounds 50 Cocaine 50 Morphine 50 Benzoylecgonine 500 Codeine 15 Ecgonine 0 Diacetylmorphine (Heroin) 60 Ecgonine methyl ester 50,000 Ecthylmorphine 30	Cotinine	50	Hydromorphone	125
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000 Cocaine 50-Related Compounds Opiates 50 - Related Compounds 50 Cocaine 50 Morphine 50 Benzoylecgonine 500 Codeine 15 Ecgonine >100,00 Diacetylmorphine (Heroin) 60	Cotinine 50-Related Compounds		Hydrocodone	60
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000 Cocaine 50-Related Compounds Opiates 50 - Related Compounds 50 Cocaine 50 Morphine 50 Benzoylecgonine 500 Codeine 15 Provide Stream Provide Stream 60	Ecgonine methyl ester	50,000	Ethylmorphine	30
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000 Cocaine 50-Related Compounds Opiates 50 - Related Compounds 50 Cocaine 50 Morphine 50	Ecgonine		Diacetylmorphine (Heroin)	60
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000 Cocaine 50-Related Compounds Opiates 50 - Related Compounds 5,000	Benzoylecgonine	500	Codeine	15
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000 Ecgonine methyl ester 30,000 Thebaine 5,000	Cocaine	50	Morphine	50
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000 Ecgonine >100000 Oxymorphone 25,000	Cocaine 50-Related Compounds	•		.,
Cocaine 30 Nalorphine 10,000 Benzoylecgonine 300 Oxycodone 25,000	Ecgonine methyl ester	30,000		
Cocaine 30 Nalorphine 10,000	Ecgonine	>100000		
- Worphine-5- p-d-graduroinde 50				
Morphine-3-β-d-glucuronide 50	Cocaine	30		10,000
Cocaine 30-Related Compounds	Cocaine 30-Related Compounds		Morphine-3- β-d-glucuronide	50

Ketamine(KET)	100	Tricyclic Antidepressants 100-Related	Compounds	
Norketamine	100	Nortriptyline	100	
Dextromethorphan	>10000	Marijuana 50 -Related Compounds		
	>			
D-Norpropoxyphene	100000	Δ9-Tetrahydrocannabinol	50	
Meperidine	> 100000	Δ8-Tetrahydrocannabinol	75	
wepertaine	>	Zo-retranychocannabinor	73	
D-Methamphetamine	100000	11-nor-∆9 -THC-9 COOH	12	
3,4-Methylenedioxyethylamphetam	>			
ine (MDEA)	100000	11-hydroxy-Δ9 -THC	300	
Phencyclidine	400	Cannabinol	2,000	
Promethazine	> 100000	Cannabidiol	>10,000	
6-MAM-Related Compounds	100000	Marijuana 30 -Related Compounds		
6-Monoacetylmorphine	10	Δ9-Tetrahydrocannabinol	30	
Acetylcodeine	>10,000	Δ8-Tetrahydrocannabinol	40	
Buprenorphine	>10,000	11-nor-Δ9-THC-9 COOH	8	
Codeine	>10,000	11-hydroxy-Δ9 -THC	150	
Diacetylmorphine	1000	Cannabinol	1,000	
Dihydrocodeine	>10,000	Cannabidiol	>10,000	
Ethylmorphine	>10,000	Marijuana 12 -Related Compounds		
Hydrocodone	>10,000	11-nor-∆9 -THC-9 COOH	12	
Hydromorphone	5,000	∆8-Tetrahydrocannabinol	2,000	
Morphine	10,000	Δ9-Tetrahydrocannabinol	4,000	
Morphine-3-glucuronide	>10,000	11-hydroxy-Δ9 -THC	300	
Nalorphine	5,000	Tramadol 30 related compounds	-	
Thebaine	>20,000	Tramadol	30	

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 Screen Saliva Dru

Drug Test when tested at concentr	ations up to 100 ug/ml.	
(-)-Ephedrine(Except MET)	Chlorpheniramine	Oxalic Acid
(+)-Naproxen	Creatine	Penicillin-G
(+/-)-Ephedrine(Except MET)	Dextromethorphan	Pheniramine
4-Dimethyllaminoantiyrine	Dextrorphan tartrate	Phenothiazine
Acetaminophen(Except ACE)	Dopamine	Procaine
Acetone	Erythromycin	Protonix
Albumin	Ethanol	Pseudoephedrine
Amitriptyline(Except TCA)	Furosemide	Quinidine
Ampicillin	Glucose	Ranitidine
Aspartame	Guaiacol Glyceryl Ether	Sertraline
Aspirin	Hemoglobin	Tyramine
Benzocaine	Ibuprofen	Vitamin C (Ascorbic Acid)
Bilirubin	Imipramine(Except TCA)	Trimeprazine
b-Phenylethyl-amine	Isoproterenol	Venlafaxine
Caffeine	Lidocaine	
Chloroquine	Methadone(Except MTD)	
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

- Reducing agents: Ascorbic acid, Tannic acid, Pyrogallol, Mercaptans and tosylates, Oxalic acid, Uric Acid
- . Bilirubin •

-

- L-dopa L-methyldopa ٠
- . Methampyrone

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GLOSSARY OF SYMBOLS

-	Catalog number	_	Temperature limitation
0	Consult instructions for use		Batch code
Ω	In vitro diagnostic medical device	(Use by
Τ	Manufacturer		Do not reuse

Number:

Version 3.0/Effective date: 2016-05-05

Manufacture for: American Screening, LLC 9742 St. Vincent Ave Ste 100, Shreveport, LA 71106 Customer Service Phone: 866-526-2873



B. Agents which inhibit color development