

ONESCREEN™

Drugs of Abuse Integrated Card(Urine)

Package Insert for testing of any combination of the following drugs:

6-MAM/ACE/AMP/BAR/BUP/BZO/CFYL/COC/COT/EDDP/ETG/FYL/GAB/HMO/K2/K3/K4/KET/KRA/LSD/MCAT/MDMA/MDPV/MET/MOP/MPD/MQL/MTD/OPI/OXY/PCP/PGB/PPX/TCA/THC/TML/TZD/ZOL/ALC

For forensic use only.

INTENDED USE

Drug Tests Card is a rapid visual immunoassay for the qualitative, presumptive detection of any combination of drugs of abuse in human urine specimens at the cut-off concentrations listed below:

Test	Calibrator	Cut-off (ng/mL)
6-MAM	6-Monoacetylmorphine	10
7-ACL	7-Aminoclonazepam	300/200
ACE	Acetaminophen	5000
AMP	d-Amphetamine	300/500/1000
BAR	Secobarbital	200/300
BUP	BUP-3-D-Glucuronide	5/10
BZO	Oxazepam	100/200/300
CFYL	Carfentanyl	500
COC	Benzoylcocaine	100/150/200/300
COT	(-)-Cotinine	100/200/300
EDDP	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine	100/300
ETG	Ethyl Glucuronide	500/1000
FYL	Fentanyl	10/20/100/200/300
GAB	Gabapentin	2000
HMO	Hydromorphone	250/300/1000
K2	JWH-073/JWH-018	25/50
K3	AB- PINACA	25
K4	UR-144 5-Pentanoic acid metabolite	25
KET	Ketamine	500/1000
KRA	7-hydroxymirtazapine	500
LSD	9,10-Didehydro-N,N-diethyl-6-methylergoline-8-beta-carboxamide	10/20/50
MCAT	Methcathinone	500
MDMA	3,4-Methylenedioxy-MET	500/1000
MDPV	Methylenedioxypyrovalerone	500
MET	D-Methamphetamine	300/500/1000
MOP	Morphine	100/200/300
MPD	Methylphenidate	150/300
MQL	Methaqualone	300
MTD	Methadone	200/300
NFYL	Norfentanyl	20/50
OPI	Morphine	300/1000/2000
OXY	Oxycodone	100/300
PCP	Phencyclidine	25
PGB	Pregabalin	500/1000
PPX	D-Propoxyphene	300
TCA	Nortriptyline	1000
THC	11-nor- Δ^9 -THC-9-COOH	25/50/150/200/300/500
TML	Tramadol	100/200/300
TZD	Trazodone	200
ZOL	Zolpidem Phenyl-4-carboxylic acid	25/50
ALC	Alcohol	0.02%

The Integrated Split Specimen Cup (Urine) can also come with adulteration strips listed below:

Adulteration (StripA)	Oxidants / Specific Gravity / PH
Adulteration (StripB)	Nitrite / Glutaraldehyde / Creatinine

PRINCIPLE

Drug Tests Card is an immunoassay based on the principle of competitive binding. Drugs that may be present in the urine specimen compete against their respective drug conjugate for binding sites on their specific antibody.

During testing, a portion of the urine specimen migrates upward by capillary action. A drug, if present in the urine 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 appear in the test line region of the corresponding drug strip. The presence of drug above the cut-off

concentration in the urine specimen will saturate all the binding sites of the antibody. Therefore, no colored line will form in the test line region.

A drug-positive urine specimen will not generate a colored line in the specific test line region of the strip because of drug competition, while a drug-negative urine 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.

Adulteration is the tampering of a urine specimen with the intention of altering the test results. The use of adulterants can cause false negative results in drug tests by either interfering with the screening test and/or destroying the drugs present in the urine. Dilution may also be employed in an attempt to produce false negative drug test results.

One of the best ways to test for adulteration or dilution is to determine certain urinary characteristics such as Creatinine, pH, and Specific Gravity and to detect the presence of Glutaraldehyde, Nitrite and Oxidants/Pyridinium Chlorochromate in urine.

Creatinine (CRE): Tests for specimen dilution. Creatinine is a waste product of Creatine, and is an amino-acid contained in muscle tissue and found in urine.1 A person may attempt to foil a drug test by drinking excessive amounts of water or diuretics such as herbal teas to flush the system. Creatinine and Specific Gravity are two ways to check for dilution and flushing, which are the most common mechanisms used to circumvent drug testing. Low Creatinine and Specific Gravity levels may indicate diluted urine. The absence of Creatinine (<5 mg/dL) is indicative of a specimen not consistent with human urine.

Nitrite (NIT): Tests for commonly used commercial adulterants. They work by oxidizing the major cannabinoid metabolite THC-COOH.2 Normal urine should contain no trace of Nitrites. Positive results generally indicate the presence of an adulterant.

Glutaraldehyde (GLUT): Tests for the presence of aldehydes. Adulterants can contain Glutaraldehyde and can cause false negative screening results by disrupting the enzyme used in some immunoassay tests.3 Glutaraldehyde is not normally found in urine; therefore, detection of Glutaraldehyde in a urine specimen is generally indicates adulteration.

pH: Tests for the presence of acidic or alkaline adulterants in urine. Normal pH levels should be in the range of 4.0 to 9.0. Values outside of this range may indicate that the specimen has been altered.

Specific Gravity (SG): Tests for specimen dilution. The normal range is from 1.003 to 1.030. Values outside this range may be the result of specimen dilution or adulteration.

Oxidants/Pyridinium Chlorochromate (OXI/PCC): Tests for the presence of oxidizing reagents such as bleach and hydrogen peroxide. Pyridinium Chlorochromate is a commonly used adulterant.3 Normal human urine should not contain Oxidants or PCC.

MATERIALS

Materials Provided

Test card

Package insert

Materials Required but Not provided

Timer Centrifuge

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).
- Avoid cross-contamination of specimens by using a new specimen collection container for each specimen obtained.
- 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.

STORAGE AND STABILITY

- The kit should be stored at 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

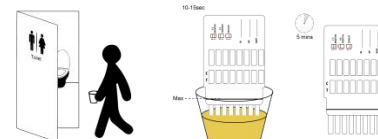
- The Drugs of Abuse Integrated Card(Urine) is intended for use with human urine specimens only.
- Urine collected at any time of the day may be used.
- Urine specimens must be collected in clean, dry containers.
- Turbid specimens should be centrifuged, filtered, or allowed to settle and only the clear supernatant

should be used for testing.

- Perform testing immediately after specimen collection. Do not leave specimens at room temperature for prolonged periods. Urine specimens may be stored at 2-8°C for up to 2 days. For long term storage, specimens should be kept below -20°C.
- Bring specimens to room temperature prior to testing. Frozen specimens must be completely thawed and mixed well prior to testing. Avoid repeated freezing and thawing of specimens.
- If specimens are to be shipped, pack them in compliance with all applicable regulations for transportation of etiological agents.

PROCEDURE

- Equilibrate the test card, or the test strip, urine specimens or external controls to room temperature(15-30°C) prior to testing.
- Removing the test card from the sealed pouch and dip the card into the specimen for at least 15 seconds to 20 seconds or until migration occurs. Immerse the strip(s) of the test card just below the top line of the wave line on the test strips; do not dip the card above the top line.
- Place the test card or the test strip on a flat dry surface.
- Read the adulteration strips between 3 to 5 minutes (when applicable) by comparing the colors in the adulteration pads to the enclosed color chart. If the specimen indicates adulteration, refer to your Drug Free Policy for guidelines on adulterated specimens. We recommended not to interpret the drug test results and suggest you to retest the urine by using another specimen.
- Read the results at 5 minutes. Do not interpret the result after 10 minutes.



- 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. For the adulteration, compared with the color card, and the results should be read at 2 minutes, do not interpret the result after 5 minutes.



INTERPRETATION OF 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.

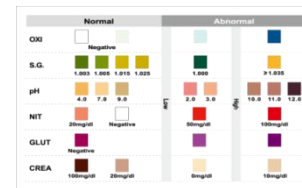
NEGATIVE: Two colored bands appear on the membrane. One band appears in the control region (C) and another band appears in the test region (T) for the drug in question. A negative result indicates that the drug concentration is below the detectable level.

INVALID: Control band fails to appear. Results from any test which has not produced a control band 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.

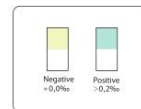
NOTE:

- 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.

The Result Of Adulteration Strips:



The Result Of Alcohol Strips:



The Urine Adulteration Test Strips (Urine) are meant to aid in the determination of abnormal specimens. While comprehensive, these tests are not meant to be an all-inclusive representation of possible adulterants.

Creatinine: Normal Creatinine levels are between 20 and 350 mg/dL. Under rare conditions, certain kidney diseases show dilute urine.

Nitrite: Nitrite is not a normal component of human urine. However, Nitrite found in urine may indicate urinary tract infections or bacterial infections. Nitrite levels of >20 mg/dL may produce false positive Glutaraldehyde results.

Glutaraldehyde: Glutaraldehyde is not normally found in urine. However, certain metabolic abnormalities such as ketoacidosis (fasting, uncontrolled diabetes or high-protein diets) may interfere with the test results.

Specific Gravity: Elevated levels of protein in urine may cause abnormally high Specific Gravity values.

Oxidants/PCC: Normal human urine should not contain Oxidants or PCC. The presence of high levels of antioxidants in the specimen, such as ascorbic acid, may result in false negative results for the Oxidants/PCC pad.

QUALITY CONTROL

The Quality Control Of DOA:

- 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.

The Quality Control Of Adulteration Strips:

Control standards are not supplied with this kit. However, it is recommended that positive and negative specimens or controls be tested as good laboratory practice to confirm the test procedure and to verify proper test performance.

LIMITATIONS OF THE TEST

- Drug Tests Card is for forensic use only, and should be only used for the qualitative detection of drugs of abuse.
- 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.
- Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. Therefore, please preclude the possibility of urine adulteration prior to testing.
- 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 urine, as they may be present below the minimum detection level of the test.
- This test does not distinguish between drugs of abuse and certain medications.

The Limitations Of Adulteration Strips:

The Urine Adulteration Test Strips (Urine) are meant to aid in the determination of abnormal specimens. While comprehensive, these tests are not meant to be an all-inclusive representation of possible adulterants.

1.Creatinine: Normal Creatinine levels are between 20 and 350 mg/dL. Under rare conditions, certain kidney diseases show dilute urine.

2.Nitrite: Nitrite is not a normal component of human urine. However, Nitrite found in urine may indicate urinary tract infections or bacterial infections. Nitrite levels of >20 mg/dL may produce false positive Glutaraldehyde results.

3.Glutaraldehyde: Glutaraldehyde is not normally found in urine. However, certain metabolic abnormalities such as ketoacidosis (fasting, uncontrolled diabetes or high-protein diets) may interfere with the test results.

4.Specific Gravity: Elevated levels of protein in urine may cause abnormally high Specific Gravity values.

5.Oxidants/PCC: Normal human urine should not contain Oxidants or PCC. The presence of high levels of antioxidants in the specimen, such as ascorbic acid, may result in false negative results for the Oxidants/PCC pad.

PERFORMANCE CHARACTERISTICS

A. Accuracy

The accuracy of Drug Tests Card was established by running urine samples against GC/MS.

Specimen	6-MAM10	7-ACL300	7-ACL200	ACE5000	AMP1000	AMP500	AMP300	BAR300
Positive	96.8%	97.8%	98.3%	96.1%	95.8%	95.9%	96.1%	97.8%
Negative	100%	100%	99.9%	100%	100%	100%	100%	98.1%
Total	98.2%	99.0%	99.1%	98.1%	98.1%	98.1%	98.1%	98%

Specimen	BAR200	BUP10	BUP5	BZO300	BZO200	BZO100	CFYL500	COC300
Positive	96.6%	100%	100%	95.3%	97.4%	95.9%	97.1%	98.2%
Negative	97%	100%	100%	92.9%	98.2%	98%	99.1%	98.1%
Total	96.8%	100%	100%	93.9%	97.9%	97%	98.6%	98.2%

Specimen	COC200	COC150	COC100	COT300	COT200	COT100	EDDP300	EDDP100
Positive	95.7%	96%	98.2%	97.9%	97.7%	100%	98.6%	95.8%
Negative	98.1%	94%	98.1%	98.1%	97.9%	100%	100%	100%
Total	97.0%	95%	98.2%	98%	98%	100%	99.1%	98.1%

Specimen	ETG1000	ETG500	FYL300	FYL200	FYL100	FYL20	FYL10	GAB2000	HMO1000
Positive	99.8%	79.7%	96.8%	96.8%	94.4%	96.8%	96.9%	97.7%	100%
Negative	99.2%	84.7%	100%	100%	100%	100%	100%	98.4%	100%
Total	99.8%	82.2%	98.8%	98.3%	97.2%	98.3%	98.5%	98.1%	100%

Specimen	HMO300	HMO250	K2 50	K2 25	K3 25	K4 25	KET1000	KET500
Positive	100%	95.9%	98.9%	97.5%	99.9%	98.8%	98%	100%
Negative	100%	100%	100%	98.4%	99.9%	99.2%	98.6%	100%
Total	100%	98.0%	99%	98.0%	99.9%	99.9%	98.3%	100%

Specimen	KRA500	LSD50/20/10	MCAT500	MDMA1000	MDMA500	MDPV500	MET1000	MET500
Positive	99.1%	100%	97.6%	98.5%	100%	100%	96.8%	96.9%
Negative	98.6%	100%	99%	98.2%	100%	100%	100%	100%
Total	99.2%	100%	98%	98.3%	100%	100%	98.3%	98.3%

Specimen	MET300	MOP300	MOP200	MOP100	MPD300	MPD150	MQL300	MTD300
Positive	96.8%	96.8%	96.1%	96.1%	97.7%	97.7%	98.4%	96.1%
Negative	100%	97.9%	100%	100%	98.4%	98.4%	98%	100%
Total	98.4%	97.3%	98.1%	98.1%	98.1%	98.1%	98.2%	98.1%

Specimen	MTD200	NFYL50	NFYL20	OPI2000	OPI1000	OPI300	OXY300	OXY100
Positive	97.3%	98.8%	98.9%	97.6%	96.5%	96.4%	98%	96.1%
Negative	100%	98.1%	98.1%	98.4%	96%	96.6%	97%	100%
Total	98.7%	98.1%	98.5%	98.1%	96.3%	96.5%	97%	98.1%

Specimen	PCP25	PGB1000	PGB500	PPX300	TCA1000	THC500	THC300	THC200
Positive	97.8%	97.2%	97.2%	97.8%	92.1%	100%	96.6%	96.1%
Negative	100%	98.2%	98.3%	100%	100%	100%	100%	100%
Total	98.9%	97.8%	97.8%	99%	96.8%	100%	98.4%	98.1%

Specimen	THC150	THC50/25	TML300	TML200	TML100	TZD200	ZOL50	ZOL25
Positive	98.4%	96.8%	97.8%	92.1%	100%	96.6%	96.1%	98.4%
Negative	98.3%	98.3%	100%	100%	100%	100%	100%	98.3%
Total	98.4%	97.5%	99%	96.8%	100%	98.4%	98.1%	98.4%

*NOTE: BUP was based on LC/MS data instead of GC/MS

B. Sensitivity

The sensitivity of Drug Tests Card was determined by testing GC/MS confirmed controls at negative, -50% cut-off, +25% cut-off, cut-off, +25% cut-off, +50% cut-off and 3 times cut-off concentrations. The results are summarized below:

Drug Conc.	n	6-MAM	7-ACL300	7-ACL200	ACE5000	AMP1000	AMP500	AMP300	
(Cut-off)		-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0
Cutoff	50	25	25	18	32	14	36	20	30
125% Cutoff	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	50	0	50	0	50	0	50
3XCutoff	50	0	50	0	50	0	50	0	50

Drug Conc.	n	BAR300		BAR200		BUP10		BUP5		BZO300		BZO200		BZO100	
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0

Cutoff	50	11	39	15	35	25	25	21	29	17	33	11	39	11	39
125% Cutoff	50	0	0	50	0	0	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	0	50	0	0	50	0	50	0	50	0	50	0	50
3XCutoff	50	0	0	50	0	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	CFYL500	COC300	COC200	COC150	COC100	COT300	COT200	
(Cut-off)		-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0
Cutoff	50	14	36	11	39	18	32	24	26
125% Cutoff	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	50	0	50	0	50	0	50
3XCutoff	50	0	50	0	50	0	50	0	50

Drug Conc.	n	COT100	EDDP300	EDDP100	ETG1000	ETG500	FYL300	FYL200							
(Cut-off)		-	+	-	+	-	+	-	+						
Negative	50	50	0	50	0	50	0	50	0	50	0				
50% Cut-off	50	50	0	50	0	50	0	47	3	50	0	50	0		
75% Cutoff	50	50	0	50	0	50	0	42	8	50	0	50	0		
Cutoff	50	12	38	24	26	25	25	16	34	18	32	22	28	22	28
125% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3XCutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	FYL100	FYL20	FYL10	GAB2000	HMO1000	HMO300	HMO250	K2 50		
(Cut-off)		-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0
50%	50	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0
Cutoff	50	25	25	22	28	25	16	34	18	32	16
125%	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50
3XCutoff	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	K2 25	K3 25	K4 25	KET1000	KET500	KRA500	LSD50	LSD20
(Cut-off)		-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0
50% Cut-off	50	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0
Cutoff	50	16	34	12	38	10	40	16	34
125% Cutoff	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	50	0	50	0	50	0	50
3XCutoff	50	0	50	0	50	0	50	0	50

Drug Conc.	n	LSD10	MCAT500	MDMA1000	MDMA500	MDPV500	MET1000	MET500							
(Cut-off)		-	+	-	+	-	+	-	+						
Negative	50	50	0	50	0	50	0	50	0	50	0				
50% Cut-off	50	50	0	50	0	50	0	50	0	50	0				
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0				
Cutoff	50	16	34	20	30	25	25	13	37	16	34	23	27	10	40
125% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3XCutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc.	n	MET300	MOP300	MOP200	MOP100	MPD300	MPD150	MQL300	MTD300					
(Cut-off)		-	+	-	+	-	+	-	+	-	+	-	+	
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	
50% Cut-off	50	50	0	50	0	50	0	50	0	50	0	50	0	
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	
Cutoff	50	15	35	18	32	18	32	20	30	22	28	22	36	6 44
125% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0
150% Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0
3xCutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0

50%	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75%	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	12	38	22	28	24	26	23	27	13	37	24	26	13	37	19	31	9	41
125%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc. (Cut-off)	n	PGB1000		PGB500		PPX300		TCA1000		THC500		THC300		THC200		THC150	
		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50%	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	41	9	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	3	47	8	42	20	30	9	41	18	32	15	35	17	33	19	31
125%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

Drug Conc. (Cut-off)	n	THC50		THC25		TML300		TML200		TML100		TZD200		ZOL50		ZOL25	
		-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
Negative	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
50%	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
75% Cutoff	50	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0
Cutoff	50	17	33	11	39	11	39	14	36	15	35	20	30	17	33	16	34
125%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
150%	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50
3×Cutoff	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50	0	50

C. Specificity

The following tables list the concentrations of compounds (ng/mL) above which the Drug Tests Card identified positive results at 5 minutes.

6-MAM 10 related compounds	
6-Monoacetylmorphine	10
Acetylcodeine	>10,000
Buprenorphine	>10,000
Codeine	>10,000
Diacetylmorphine	1,000
Dihydrocodeine	>10,000
Ethylmorphine	>10,000
Hydrocodone	>10,000
Hydromorphone	5,000
Morphine	10,000
Morphine-3-glucuronide	>10,000
Nalorphine	5,000
Thebaine	>20,000
7-ACL 300 related compounds	
7-amine-clonazepam	300
Oxazepam	>10,000
Alprazolam	>10,000
Bromazepam	>10,000
Chlordiazepoxide	>10,000
Clobazam	>10,000
Clonazepam	10,000
Clorazepate dipotassium	>10,000
Desalkylflurazepam	>10,000
Diazepam	>10,000
Estazolam	>10,000
Flunitrazepam	>50,000
(±) Lorazepam	10,000
Midazolam	>100,000
Nitrazepam	>10,000

Norchlordiazepoxide	>100,000
Secobarbital	>100,000
Temazepam	>10,000
7-ACL 200 related compounds	
7-amine-clonazepam	200
Oxazepam	>10,000
Alprazolam	>10,000
Bromazepam	>10,000
Chlordiazepoxide	>10,000
Clobazam	>10,000
Clonazepam	6,000
Clorazepate dipotassium	>10,000
Desalkylflurazepam	>10,000
Diazepam	>10,000
Estazolam	>10,000
Flunitrazepam	>50,000
(±) Lorazepam	6,000
Midazolam	>100,000
Nitrazepam	>10,000
Norchlordiazepoxide	>100,000
Nordiazepam	>100,000
ACE 5000 related compounds	
Acetaminophen	5,000
Acetophenetidine	7,500
AMP 1000 related compounds	
d-Amphetamine	1,000
l-Amphetamine	>100,000
d-methamphetamine	>100,000
l-methamphetamine	>100,000
3,4-Methylenedioxyamphetamine	1,250
3,4-Methylenedioxy-methamphetamine	>100,000
3,4-Methylenedioxyethylamphetamine	>100,000
Paramethoxyamphetamine	625
Phentermine	1,250
Tyramine	>100,000
AMP 500 related compounds	
d-Amphetamine	500
l-Amphetamine	50,000
3,4-Methylenedioxyamphetamine	625
Phentermine	1,250
Paramethoxyamphetamine	625
Tyramine	>100,000
AMP 300 related compounds	
d-Amphetamine	300
l-Amphetamine	50,000
Mephentermine hemisulfate salt	>100,000
3,4-Methylenedioxyamphetamine (MDA)	625
Phentermine	625
Paramethoxyamphetamine (PMA)	625
Paramethoxymethamphetamine (PMMA)	>100,000
Tyramine	>100,000
BAR 300 related compounds	
Secobarbital	300
Allobarbital	1,250
Alphenal	625
Amobarbital	625

Aprobarbital	188
Butabarbital	94
Butalbital	2,500
Butethal	200
Cyclopentobarbital	400
Pentobarbital	1,000
Phenobarbital	300
BAR 200 related compounds	
Secobarbital	200
Allobarbital	820
Alphenal	500
Amobarbital	500
Aprobarbital	130
Butabarbital	70
Butalbital	1,800
Butethal	150
Cyclopentobarbital	300
Pentobarbital	730
Phenobarbital	200
BUP 10 related compounds	
Buprenorphine	10
Buprenorphine–3–β–D–Glucuronide	10
Norbuprenorphine	50
Norbuprenorphine–3–β–D–Glucuronide	100
BUP 5 related compounds	
Buprenorphine	5
Buprenorphine–3–β–D–Glucuronide	5
Norbuprenorphine	25
Norbuprenorphine–3–β–D–Glucuronide	50
BZO 300 related compounds	
Oxazepam	300
Alprazolam	125
Bromazepam	625
Chlordiazepoxide	2,500
Clobazam	63
Clonazepam	2,500
Clorazepate	3,330
Desalkflurazepam	250
Diazepam	250
Estazolam	5,000
Fentanyl	>100,000
Flunitrazepam	375
Flurazepam	>100,000
Lorazepam	1,250
Lormetazepam	1,250
Medazepam	>100,000
Midazolam	>100,000
Nitrazepam	25,000
Norchlordiazepoxide	250
Nordiazepam	500
Prazepam	>100,000
Temazepam	63
Triazolam	5,000
BZO 200 related compounds	
Oxazepam	200
Alprazolam	83

Bromazepam	417
Chlordiazepoxide	1,667
Clobazam	42
Clonazepam	1,667
Clorazepate	2,220
Desalkflurazepam	167
Diazepam	167
Estazolam	3,333
Fentanyl	>100,000
Flunitrazepam	250
Flurazepam	>100,000
Lorazepam	833
Lormetazepam	833
Medazepam	>100,000
Midazolam	>100,000
Nitrazepam	16,667
Norchlordiazepoxide	167
Nordiazepam	333
Prazepam	>100,000
Temazepam	42
Triazolam	3,333
BZO 100 related compounds	
Oxazepam	100
Alprazolam	42
Bromazepam	208
Chlordiazepoxide	833
Clobazam	21
Clonazepam	833
Clorazepate	1,110
Desalkflurazepam	83
Diazepam	83
Estazolam	1,667
Fentanyl	>100,000
Flunitrazepam	125
Flurazepam	>100,000
Lorazepam	417
Lormetazepam	417
Medazepam	>100,000
Midazolam	>100,000
Nitrazepam	8,333
Norchlordiazepoxide	83
Nordiazepam	167
Prazepam	>100,000
Temazepam	21
Triazolam	1,667
CFYL 500 related compounds	
Carfentanyl	500
Fentanyl	100
COC 300 related compounds	
Benzoylcegonine	300
Cocaine	1,000
Ecgonine	100,000
Ecgonine Methyl Ester	>100,000
COC 200 related compounds	
Benzoylcegonine	200
Cocaine	125

Ecgonine	5,000
Ecgonine Methyl Ester	>100,000
COC 150 related compounds	
Benzoylcegonine	150
Cocaine	125
Ecgonine	10,000
Ecgonine Methyl Ester	>10000
COC 100 related compounds	
Benzoylcegonine	100
COT 300 related compounds	
(-)-Cotinine	300
(-)-Nicotine	9,375
COT 200 related compounds	
(-)-Cotinine	200
(-)-Nicotine	6,250
COT 100 related compounds	
(-)-Cotinine	100
Buprenorphine	100,000
EDDP 300 related compounds	
EDDP	300
Meperidine	>100,000
Methadone	>100,000
Norfentanyl	>100,000
Phencyclidine	>100,000
Promazine	80,000
Promethazine	75,000
Prothipendyl	80,000
Prozine	37,500
EDDP 100 related compounds	
EDDP	100
Meperidine	>100,000
Methadone	>100,000
Norfentanyl	>100,000
Phencyclidine	>100,000
Promazine	50,000
Promethazine	25,000
Prothipendyl	50,000
Prozine	12,500
ETG 1000 related compounds	
Ethyl Glucuronide	1,000
ETG 500 related compounds	
Ethyl Glucuronide	500
Ethanol	>100,000
D-Glucuronic Acid	>100,000
Morphine-3-b-D-glucuronide	>100,000
FYL 300 related compounds	
Fentanyl	300
Norfentanyl	>10,000
FYL 200 related compounds	
Fentanyl	200
Norfentanyl	>10,000
FYL 100 related compounds	
Fentanyl	100
Norfentanyl	>10,000
FYL 20 related compounds	
Fentanyl and Fentanyl metabolites	20

Fentanyl	200
Norfentanyl	>10,000
FYL 10 related compounds	
Fentanyl and Fentanyl metabolites	10
Fentanyl	100
Norfentanyl	>10,000
GAB 2000 related compounds	
Gabapentin	2,000
Pregbalin	> 100,000
HMO 1000 related compounds	
hydromorphone	1,000
Acetylcodeine	6,000
Buprenorphine	>10,000
Codeine	5,000
Diacetyl Morphin	10,000
Dihydrocodeine	12,000
Ethylmorphine	10,000
Hydrocodone	800
Morphine	8,000
6-Monoacetylmorphine	5,000
Morphine-3-glucuronid	5,000
Nalorphine	50,000
Thebaine	> 20,000
Methadone	> 100,000
Oxazepam	> 100,000
Oxycodone	> 100,000
EDDP	> 100,000
HMO 300 related compounds	
Hydromorphone	300
Acetylcodeine	4,000
Buprenorphine	> 10,000
Codeine	3,000
Diacetyl Morphin	3,000
Dihydrocodeine	4,000
Ethylmorphine	4,000
Hydrocodone	300
Morphine	2,500
6-Monoacetylmorphine	3,000
Morphine-3-glucuronid	2,500
Nalorphine	12,500
Thebaine	> 20000
Methadone	> 100000
Oxazepam	> 100000
Oxycodone	100,000
EDDP	> 100000
HMO 250 related compounds	
Hydromorphone	250
Acetylcodeine	4,000
Buprenorphine	> 10,000
Codeine	3,000
Diacetyl Morphin	3,000
Dihydrocodeine	4,000
Ethylmorphine	4,000
Hydrocodone	300
Morphine	2,500
6-Monoacetylmorphine	3,000

Morphine-3-glucuronid	2,500
Nalorphine	12,500
Thebaine	>20000
Methadone	>100000
Oxazepam	>100000
Oxycodone	100,000
EDDP	>100000
K2 50 related compounds	
JWH-018-5-Pentanoic acid	50
JWH-073-4-Butanoic acid	50
K2 25 related compounds	
JWH-018-5-Pentanoic acid	25
JWH-073-4-Butanoic acid	25
JWH-250 5-Hydroxypentyl	>10,0000
K3 25 related compounds	
AB- PINACA	25
AB-PINACA 5-Pentanoic	25
AB-PINACA 5-hydroxypentyl	25
AB- FUBINACA	40
AB-PINACA 4-hydroxypentyl	>10,000
UR-144 5-Pentanoic	5,000
UR-144	>10,000
UR-144 5-hydroxypentyl	>10,000
UR-144 4-hydroxypentyl	>10,000
APINACA	>10,000
APINACA 5-hydroxypentyl	>10,000
ADB-PINACA N-(5-hydroxypentyl)	50
ADB-PINACA Pentanoic Acid	25
5-fluoro AB-PINACA N-(4-hydroxypentyl)	50
K4 25 related compounds	
UR-144 5-Pentanoic acid metabolite	25
UR-144 4-hydroxypentyl	50
UR-144 5-hydroxypentyl	50
UR-144	>10,000
XLR-11	>10,000
AB- PINACA	>10,000
AB-PINACA 5-Pentanoic	>10,000
AB-PINACA 5-hydroxypentyl	>10,000
AB- FUBINACA	>10,000
AB-PINACA 4-hydroxypentyl	>10,000
APINACA	>10,000
APINACA 5-hydroxypentyl	>10,000
ADB-PINACA N-(5-hydroxypentyl)	>10,000
ADB-PINACA Pentanoic Acid	>10,000
5-fluoro AB-PINACA N-(4-hydroxypentyl)	>10,000
KET 1000 related compounds	
Ketamine	1000
Norketamine	1000
Dextromethorphan	>100,000
Dextrorphan tartrate	>100,000
D-Norpropoxyphene	31250
EDDP	>100,000
Meperidine	12500
Mephentermine hemisulfate salt	50000
Methadone	12500
D-Methamphetamine	12500

3,4-Methylenedioxyethylamphetamine	25000
Nordoxepin hydrochloride	25000
Phencyclidine	5000
Promazine	8000
Promethazine	25000
KET 500 related compounds	
Ketamine	500
Norketamine	500
Dextromethorphan	>100,000
Dextrorphan tartrate	>100,000
D-Norpropoxyphene	30000
EDDP	>100,000
Meperidine	10000
Mephentermine hemisulfate salt	50000
Methadone	12500
D-Methamphetamine	12500
3,4-Methylenedioxyethylamphetamine	25000
Nordoxepin hydrochloride	25000
Phencyclidine	4000
Promazine	6000
Promethazine	25000
KRA 500 related compounds	
7-hydroxymitragynine	500
Mitragynine	6,000
LSD 50 related compounds	
Lysergic acid diethylamide	50
LSD 20 related compounds	
Lysergic acid diethylamide	20
LSD 10 related compounds	
Lysergic acid diethylamide	10
MCAT 500 related compounds	
Methcathinone	500
Mephedrone	500
3-methylmethcathinone	500
4-methylethcathinone	550
Cathinone	>100,000
MDPV	>10,000
MDMA 1000 related compounds	
3,4-Methylenedioxy-methamphetamine	1,000
d-Amphetamine	>100,000
l-Amphetamine	>100,000
d-methamphetamine	>100,000
l-methamphetamine	>100,000
3,4-Methylenedioxyamphetamine	3,000
3,4-Methylenedioxyethylamphetamine	500
Paramethoxyamphetamine	50,000
Paramethoxymethamphetamine	>100,000
MDMA 500 related compounds	
3,4-Methylenedioxy-methamphetamine	500
d-Amphetamine	>100,000
l-Amphetamine	>100,000
d-methamphetamine	>100,000
l-methamphetamine	>100,000
3,4-Methylenedioxyamphetamine	2,500
3,4-Methylenedioxyethylamphetamine	156
Paramethoxyamphetamine	50,000

Paramethoxymethamphetamine	>100,000
MDPV 500 related compounds	
MDPV	500
MET 1000 related compounds	
d-Methamphetamine	1,000
Chloroquine	25,000
Fenfluramine	12,500
l-Methamphetamine	10,000
Mephentermine hemisulfate salt	31,250
3,4-Methylenedioxyethylamphetamine	50,000
3,4-Methylenedioxy-methamphetamine	313
Paramethoxymethamphetamine	625
(-)-Ephedrine	4,000
MET 500 related compounds	
d-Methamphetamine	500
Chloroquine	12,500
Fenfluramine	12,500
l-Methamphetamine	3,125
Mephentermine hemisulfate salt	25,000
MDEA	12,500
MDMA	1,875
PMMA	625
(-)-Ephedrine	2,000
MET 300 related compounds	
d-Methamphetamine	300
Chloroquine	7,500
Fenfluramine	12,500
l-Methamphetamine	10,000
Mephentermine hemisulfate salt	31,250
MDEA	50,000
MDMA	313
PMMA	625
(-)-Ephedrine	2,000
MOP 300 related compounds	
Morphine	300
Acetylcodeine	150
Buprenorphine	>10000
Codeine	250
Diacetyl Morphin	250
Dihydrocodeine	586
Ethylmorphine	200
Hydrocodone	12,500
Hydromorphone	12,500
6-Monoacetylmorphine	250
Morphine-3-glucuronid	2,500
Nalorphine	25,000
Thebaine	25,000
MOP 200 related compounds	
Morphine	200
Acetylcodeine	100
Buprenorphine	2,000
Codeine	170
Diacetyl Morphin	168
Dihydrocodeine	395
Ethylmorphine	135
Hydrocodone	8,350

Hydromorphone	8,350
6-Monoacetyl morphine	170
Morphine-3-glucuronid	1,670
Nalorphine	16,666
Thebaine	16,666
MOP 100 related compounds	
Morphine	100
Codeine	100
Diacetylmorphine (Heroin)	100
Ethylmorphine	100
Hydromorphone	500
Hydrocodone	500
6-Monoacetyl morphine	100
Morphine-3-β-d-glucuronide	2,000
Oxycodone	20,000
Oxymorphone	20,000
Promethazine	>100,000
Rifampicine	8,400
Thebaine	8,400
Trimipramine	20,000
MPD 300 related compounds	
Methylphenidate	300
MPD 150 related compounds	
Methylphenidate	150
Ritalinc acid	5,000
ML 300 related compounds	
Methaqualone	300
Amitriptyline	50,000
Carbamazepine	20,000
Nortriptyline	50,000
Phenytoin	40,000
Theophylline	40,000
MTD 300 related compounds	
Methadone	300
(-)-alpha-methadol	2,000
MTD 200 related compounds	
Methadone	200
(-)-alpha-methadol	1,500
Doxylamine	3,500
LAAM HCl	6,500
Alpha Methadol	1,500
EMDP	>100,000
EDDP	>100,000
NFYL 50 related compounds	
Norfentanyl	50
Fentanyl	400
Carfentanil	>10,000
Butyryl Fentanyl	3000
p-Fluoro Fentanyl	12000
Valeryl Fentanyl	12000
Ocfentanil	>10,000
MT-45 diHCl	>100,000
NFYL 20 related compounds	
Norfentanyl	20
Fentanyl	300
Carfentanil	>10,000

Butyryl Fentanyl	2500
p-Fluoro Fentanyl	10000
Valeryl Fentanyl	10000
Ocfentanil	>10,000
MT-45 diHCl	>100,000
OPI 2000 related compounds	
Morphine	2,000
Acetylcodeine	1,563
Buprenorphine	25,000
Codeine	2,000
Diacetylmorphine (Heroin)	5,000
Dihydrocodeine	1,563
Ethylmorphine	250
Hydromorphone	25,000
Hydrocodone	50,000
Merperidine	>100,000
6-Monoacetyl morphine (6-MAM)	4,000
Morphine-3-β-d-glucuronide	12,500
Nalorphine Hydrochloride	>100,000
Oxycodone	>100,000
Oxymorphone	>100,000
Rifampicine	>100,000
Thebaine	50,000
OPI 1000 related compounds	
Morphine	1,000
Acetylcodeine	1,000
Buprenorphine	> 10000
Codeine	1,000
Diacetylmorphine (Heroin)	3,000
Dihydrocodeine	1,000
Ethylmorphine	200
Hydromorphone	25,000
Hydrocodone	50,000
Merperidine	>100,000
6-Monoacetyl morphine (6-MAM)	3,000
Morphine-3-β-d-glucuronide	10,000
Nalorphine Hydrochloride	>100,000
Oxycodone	>100,000
Oxymorphone	>100,000
Rifampicine	>100,000
Thebaine	50,000
OPI 300 related compounds	
Morphine	300
Acetylcodeine	150
Buprenorphine	>10,000
Codeine	250
Diacetyl Morphin	250
Dihydrocodeine	586
Ethylmorphine	200
Hydrocodone	12,500
Hydromorphone	12,500
6-Monoacetyl morphine	250
Morphine-3-glucuronid	2,500
Nalorphine	25,000
Thebaine	25,000
OXY 300 related compounds	

Oxycodone	300
Hydrocodone	75,000
Hydromorphone	>100,000
Naloxone	>100,000
Oxymorphone	750
OXY 100 related compounds	
Oxycodone	100
Hydrocodone	6,250
Hydromorphone	50,000
Naloxone	50,000
Oxymorphone	250
PCP 25 related compounds	
Phencyclidine	25
Hydrocodone	>100,000
Hydromorphone	>100,000
4-hydroxyphencyclidine	75
PGB 1000 related compounds	
Pregabalin	1,000
Gabapentin	> 20,000
PGB 500 related compounds	
Pregabalin	500
Gabapentin	> 20,000
PPX 300 related compounds	
D-Propoxyphene	300
D-Norpropoxyphene	5,000
TCA 1000 related compounds	
Nortriptyline HCl	1,000
Amitriptyline	1,500
Clomipramine	>100,000
Cyclobenzaprine	12,500
Desipramine	188
Doxepin	2,000
Imipramine	2,500
Maprotiline	750
Nordoxepin	500
Opipramol	1,563
Promazine	1,000
Promethazine	6,250
Prothipendyl	25,000
Protryptylene	6,250
Prozine	1,250
Trimipramine	>100,000
THC 500 related compounds	
11-nor-Δ9-THC-9-COOH	500
11-nor-Δ8-THC-9-COOH	500
Δ8-Tetrahydrocannabinol	>50,000
Δ9-Tetrahydrocannabinol	>50,000
Cannabinol	>100,000
THC 300 related compounds	
11-nor-Δ9-THC-9-COOH	300
11-nor-Δ8-THC-9-COOH	300
Δ8-Tetrahydrocannabinol	>50,000
Δ9-Tetrahydrocannabinol	>50,000
Cannabinol	>100,000
THC 200 related compounds	
11-nor-Δ9-THC-9-COOH	200

THC 150 related compounds	
11-nor-Δ9-THC-9-COOH	150
11-nor-Δ8-THC-9-COOH	90
Δ8-Tetrahydrocannabinol	45,000
Δ9-Tetrahydrocannabinol	45,000
Cannabinol	60,000
THC 50 related compounds	
11-nor-Δ9-THC-9-COOH	50
11-nor-Δ8-THC-9-COOH	50
11-hydroxy-Δ9-Tetrahydrocannabinol	50
Δ8-Tetrahydrocannabinol	15,000
Δ9-Tetrahydrocannabinol	15,000
Cannabinol	20,000
Cannabidiol	>100,000
THC 25 related compounds	
11-nor-Δ9-THC-9-COOH	25
11-nor-Δ8-THC-9-COOH	15
Δ8-Tetrahydrocannabinol	7,500
Δ9-Tetrahydrocannabinol	7,500
Cannabinol	10,000
TML 300 related compounds	
Tramadol	300
TML 200 related compounds	
Tramadol	200
TML 100 related compounds	
Tramadol	100
(+/-)Chlorpheniramine	50,000
Dimenhydrinate	50,000
Diphenhydramine	50,000
Phencyclidine	50,000
(+)-Chlorpheniramine	>100,000
TZD 200 related compounds	
Trazodone	200
ZOL 50 related compounds	
Zolpidem Phenyl-4-carboxylic	50
Zolpidem	>10,000
ZOL 25 related compounds	
Zolpidem Phenyl-4-carboxylic	25
Zolpidem	>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 the Drug Tests Card when tested at concentrations up to 100 µg/mL.

(-)-Ephedrine (Except MET)	Chlorpheniramine	Oxalic Acid
(+)-Naproxen	Creatine	Penicillin-G
(+/-)-Ephedrine (Except MET)	Dextromethorphan	Pheniramine
4-Dimethylaminoantirine	Dextroprophan tartrate	Phenothiazine
Acetaminophen	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	Ibuprofen
Chloroquine	Methadone (Except MTD)	

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GLOSSARY OF SYMBOLS

REF	Catalog number	T	Temperature limitation
U	Consult instructions for use	LOT	Batch code
IVD	In vitro diagnostic medical device	U	Use by
M	Manufacturer	Ⓜ	Do not reuse

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