

## CLIA WAIVED

# Accurate Multi-Drug Urine Screening Cup

## Instructions For Use

### IVD For medical and other professional in vitro diagnostic use.

Instructions for use for a cup device consisting of any combination of assays for the detection of the following drugs: 6-Monoacetylmorphine, d-Amphetamine, Benzoyllecgonine, Buprenorphine, EDDP, Norfentanyl, d/l-Methadone, d-Methamphetamine, d/l-Methylenedioxyamphetamine, Morphine, Nortriptyline, Oxazepam, Oxycodone, Phencyclidine, d-Propoxyphene, Secobarbital, THC-COOH and Tramadol in human urine.

### INTENDED USE

The Healgen® Accurate Multi-Drug Urine Screening Cup is a rapid lateral flow immunoassay for the qualitative detection of 6-Monoacetylmorphine, d-Amphetamine, Benzoyllecgonine, Buprenorphine, EDDP, Norfentanyl, Methadone, d-Methamphetamine, d/l-Methylenedioxyamphetamine, Morphine, Nortriptyline, Oxazepam, Oxycodone, Phencyclidine, d-Propoxyphene, Secobarbital, THC-COOH and Tramadol in human urine. The test cut-off concentrations and the compounds the tests are calibrated to are as follows:

Test	Calibrator	Cut-off (ng/mL)
6-MAM	6-Monoacetylmorphine	10
AMP	d-Amphetamine	500/1000
BAR	Secobarbital	300
BUP	Buprenorphine	10
BZO	Oxazepam	300
COC	Benzoyllecgonine	150/300
EDDP	2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine	300
FEN or FYL	Norfentanyl	5
MDMA	Methylenedioxyamphetamine	500
MET	d-Methamphetamine	500/1000
MTD	Methadone	300
OPI	Morphine	300/2000
OXY	Oxycodone	100
PCP	Phencyclidine	25
PPX	d-Propoxyphene	300
TCA	Nortriptyline	1000
THC	11-nor- $\Delta^9$ -THC-COOH	50
TRA or TML	Tramadol	100

The single or multi-test cups can consist of up to eighteen (18) of the above listed analytes in any combination with or without on-board adulteration/specimen validity tests (SVT).

The tests provide only a preliminary result. A more specific alternative chemical method must be used to obtain a confirmed positive result. Gas

Chromatography-Mass Spectrometry (GC-MS), Liquid Chromatography-Mass Spectrometry (LC-MS), and their tandem mass-spectrometer versions are the preferred confirmatory methods. Careful consideration and judgment should be applied to any drugs of abuse screen test result, particularly when evaluating preliminary positive results.

### PRINCIPLE

The Healgen® Accurate Multi-Drug Urine Screening Cup is an immunoassay based on the principle of competitive binding. Drugs which may be present in the urine specimen compete against their respective drug conjugate for binding sites on their specific antibody.

During testing, a urine specimen migrates upward by capillary action. A drug, if present in the urine specimen below the respective cut-off concentration, will not saturate the binding sites of the specific antibody coated on the particles. The antibody coated particles will then be captured by the immobilized drug conjugate and a visible colored line will show up in the test line region of the specific drug strip. The colored line will not form in the test line region if the drug level is above the respective cut-off concentration because the drug will saturate all the binding sites of the specific antibody coated on the particles.

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 or a specimen containing a drug concentration less than the cut-off will generate a line in the test line region. 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.

### WARNINGS AND PRECAUTIONS

- For *in vitro* diagnostic use only
- Treat all urine specimens and materials as if capable of transmitting infection. Wear gloves and proper laboratory attire to prevent skin contact with urine specimens. Proper handling and disposal methods should be established.
- Do not use the test kit after the expiration date.
- The device should remain in the sealed pouch until ready for use.
- The test is for single use. Do not reuse the test.
- Do not touch the test zone of the test cup.

### STORAGE AND STABILITY

- The Healgen® Accurate Multi-Drug Urine Screening Cup should be stored at 2-30°C (36-86°F) in the original sealed pouch. The device is stable through the expiration date printed on the sealed pouch. Do not use the device after the expiration date printed on the pouch.
- The device should remain in the sealed pouch until ready for use, however, the device will remain stable for up to 1 hour after opening.
- Do not freeze. (Temperature below 0°C [32°F]).

### MATERIALS

#### Materials Provided:

- Test Devices (individually sealed in foil pouch)
- Specimen Validity/Adulteration Color Card (if applicable)
- Procedure Card
- Instructions For Use
- Disposable Gloves
- Security seal labels

#### Materials Required but not Provided:

- Timer, clock, or watch

### SPECIMEN COLLECTION & PREPARATION

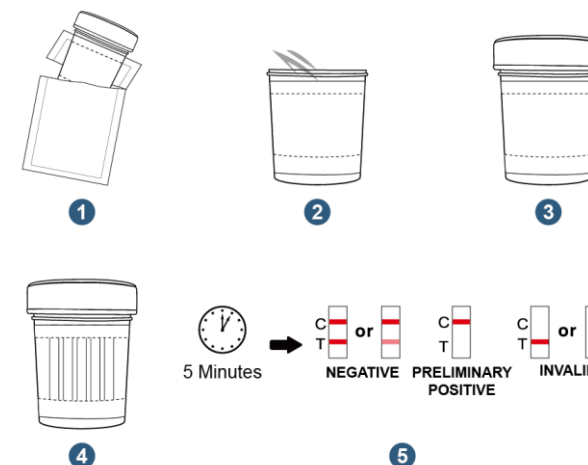
- Fresh urine does not require any special pretreatment and the specimen may be collected at any time of the day.
- If the specimen is not tested within 24 hours of collection, the sample may be refrigerated [2-8°C (36-46°F)] for up to 7 days or frozen at -20°C (4°F) for up to 1 year.
- If refrigerated or frozen, allow the test device, controls, and/or specimens to equilibrate to room temperature [15-30°C (59-86°F)] prior to testing.

### DIRECTIONS FOR USE

**Do not open the test device pouch until the test is ready to be performed. The device must be used within 1 hour of opening the pouch.**

1. Remove the test device from the sealed pouch. If required by your process, write the donor's name or ID on the label in the provided space. (Fig. 1)
2. Open the test cup lid. Urinate directly into the test cup. Be sure to fill the test cup with the urine specimen between a minimum to a maximum level (marked on the cup). (Fig. 2)
3. After the urine specimen has been collected, close the lid securely and return the cup to a collection official. (Fig. 3)
4. The collection official should peel off the label to reveal the test result (s). (Fig. 4)
5. Interpret the test results. (Fig. 5) Read the results at 5 minutes. Do not interpret the result before 5 minutes or after 30 minutes. Refer to illustration 5 in the test schematic for possible test results.

**Note:** Negative test results can be interpreted as soon as the Control lines appear and there are visible Test lines which usually occurs within 1 minute. Positive drug screen test results should be read at 5 minutes. All results remain stable for 30 minutes.



### INTERPRETATION OF RESULTS

(Please refer to the illustration below)

**NEGATIVE:** \* Two lines appear. One red line should be in the control region (C), and another red or pink line should be adjacent to the test region (Drug/T). This

negative result indicates there is no drug in the specimen, or the drug is present but below the cutoff concentration of the test.

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

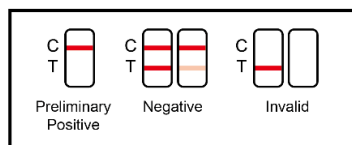
**PRELIMINARY POSITIVE:** One red line appears in the control region (C). No line appears in the test region (Drug/T). This preliminary positive result indicates the specimen may contain the drug at a concentration above the cutoff level of the test.

**IMPORTANT:** A positive result on a drug screen is called preliminary for a reason. A more specific alternative chemical method must be used to obtain a confirmed positive result.

**INVALID:** Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the test procedure and repeat the test using a new test device. If the problem persists, discontinue using the lot immediately and contact Technical Service at 1-866-982-3818.

Note: There is no meaning attributed to line color intensity or width of test lines.

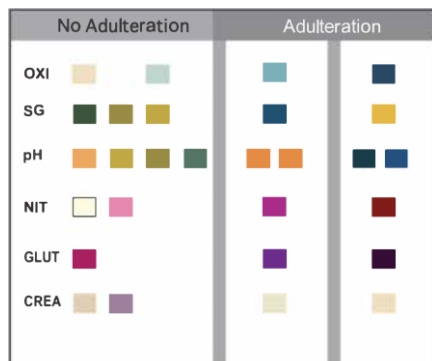
A preliminary positive test result does not always indicate that the donor took illegal drugs, and a negative test result does not always indicate the donor did not take illegal drugs. There are several factors that influence the reliability of drug tests.



### ADULTERANT INTERPRETATION

Semiquantitative results are obtained by visually comparing the reacted color blocks on the strip to the printed color blocks on the color chart.

Please refer to the color card provided in this kit for adulteration result interpretation. Read adulteration test pads at 2 minutes.



### QUALITY CONTROL

A procedural control is embedded on each test strip. A red line appearing in the control region (C) is an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking, and correct procedural

technique.

External control standards are not supplied with this kit. However, positive and negative controls are recommended to be tested as good laboratory practice to confirm the test procedure and to verify proper test performance. Quality control testing should be performed with each new lot and new operator. Follow local, state and federal laws and regulations.

Please contact our Technical Support at 1-866-982-3818 for information regarding the controls that work with the device.

### LIMITATIONS

- The Healgen® Accurate Multi-Drug Urine Screening Cup provides only a qualitative, preliminary analytical result. A more specific alternative chemical method must be used to obtain a confirmed preliminary positive result. Gas Chromatography-Mass Spectrometry (GC-MS), Liquid Chromatography-Mass Spectrometry (LC-MS), and their tandem mass-spectrometer versions are the preferred confirmatory methods.
- There is a possibility that technical or procedural errors, as well as other interfering substances in the urine specimen may cause incorrect results.
- Substances intentionally put into the specimen, such as bleach or peroxide, may produce incorrect results regardless of the analytical method used.
- A positive result does not indicate level of intoxication, administration route, or concentration of the drug in the urine specimen.
- A negative result may not necessarily indicate drug-free urine. Negative results are possible if the drug concentration is below the cutoff level.
- The test does not distinguish between drugs of abuse and certain medications.
- A positive result might be obtained from certain foods or food supplements.

### PERFORMANCE CHARACTERISTICS

#### Accuracy

The accuracy of the Healgen® Accurate Multi-Drug Urine Screening Cup was evaluated with 3 operators and 80 clinical urine specimens per operator. The specimens were analyzed by LC-MS and by the Healgen® Accurate Multi-Drug Urine Screening Cup. Samples were divided by concentration into five categories: drug-free, less than half the cutoff, near cutoff negative, near cutoff positive, and high positive. Results were as follows:

#### 6-MAM

Urines Sample	Results	6-MAM10		% Agreement with LC-MS
		+	-	
Operator A	Above 10ng/mL (+)	38	2	95.00%
	Lower 10ng/mL (-)	1	39	97.50%
	Accuracy			96.25%
Operator B	Above 10ng/mL (+)	38	2	95.00%
	Lower 10ng/mL (-)	1	39	97.50%
	Accuracy			96.25%
Operator C	Above 10ng/mL (+)	39	1	97.50%
	Lower 10ng/mL (-)	2	38	95.00%
	Accuracy			96.25%

#### Amphetamine (AMP500)

Urines Sample	Results	AMP500		% Agreement with LC-MS
		+	-	
Operator A	Above 500ng/mL (+)	39	1	97.50%
	Lower 500ng/mL (-)	1	39	97.50%
	Accuracy			97.50%

Operator B	Above 500ng/mL (+)	39	1	97.50%
	Lower 500ng/mL (-)	1	39	97.50%
	Accuracy			97.50%
Operator C	Above 500ng/mL (+)	39	1	97.50%
	Lower 500ng/mL (-)	1	39	97.50%
	Accuracy			97.50%

#### Amphetamine (AMP)

Urines Sample	Results	AMP1000		% Agreement with LC-MS
		+	-	
Operator A	Above 1000ng/mL (+)	39	1	97.50%
	Lower 1000ng/mL (-)	0	40	100.00%
	Accuracy			98.75%
Operator B	Above 1000ng/mL (+)	39	1	97.50%
	Lower 1000ng/mL (-)	1	39	97.50%
	Accuracy			97.50%
Operator C	Above 1000ng/mL (+)	39	1	97.50%
	Lower 1000ng/mL (-)	0	40	100.00%
	Accuracy			98.75%

#### Secobarbital (BAR)

Urines Sample	Results	BAR300		% Agreement with LC-MS
		+	-	
Operator A	Above 300ng/mL (+)	39	1	97.50%
	Lower 300ng/mL (-)	1	39	97.50%
	Accuracy			97.50%
Operator B	Above 300ng/mL (+)	40	0	100.00%
	Lower 300ng/mL (-)	1	39	97.50%
	Accuracy			98.75%
Operator C	Above 300ng/mL (+)	39	1	97.50%
	Lower 300ng/mL (-)	1	39	97.50%
	Accuracy			97.50%

#### Buprenorphine (BUP)

Urines Sample	Results	BUP10		% Agreement with LC-MS
		+	-	
Operator A	Above 10ng/mL (+)	38	2	95.00%
	Lower 10ng/mL (-)	2	38	95.00%
	Accuracy			95.00%
Operator B	Above 10ng/mL (+)	38	2	95.00%
	Lower 10ng/mL (-)	1	39	97.50%
	Accuracy			96.25%
Operator C	Above 10ng/mL (+)	38	2	95.00%
	Lower 10ng/mL (-)	2	38	95.00%
	Accuracy			95.00%

#### Oxazepam (BZO)

Urines Sample	Results	BZO300		% Agreement with LC-MS
		+	-	
Operator A	Above 300ng/mL (+)	38	2	95.00%
	Lower 300ng/mL (-)	1	39	97.50%

		Accuracy		96.25%	
Operator B	Above 300ng/mL (+)	38	2	95.00%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			96.25%	
Operator C	Above 300ng/mL (+)	38	2	95.00%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			96.25%	

**Cocaine (COC150)**

		COC150		% Agreement with LC-MS	
Operator A	Above 150ng/mL (+)	39	1	97.50%	
	Lower 150ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator B	Above 150ng/mL (+)	38	2	95.00%	
	Lower 150ng/mL (-)	1	39	97.50%	
	Accuracy			96.25%	
Operator C	Above 150ng/mL (+)	39	1	97.50%	
	Lower 150ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	

**Cocaine (COC)**

		COC300		% Agreement with LC-MS	
Operator A	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator B	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	2	38	95.00%	
	Accuracy			96.25%	
Operator C	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	

**EDDP**

		EDDP300		% Agreement with LC-MS	
Operator A	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator B	Above 300ng/mL (+)	38	2	95.00%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			96.25%	
Operator C	Above 300ng/mL (+)	40	0	100.00%	
	Lower 300ng/mL (-)	0	40	100.00%	
	Accuracy			100.00%	

**Norfentanyl (FEN or FYL)**

		FYL5		% Agreement with LC-MS	
Operator A	Above 5ng/mL (+)	39	1	97.50%	
	Lower 5ng/mL (-)	2	38	95.00%	
	Accuracy			96.25%	
Operator B	Above 5ng/mL (+)	38	2	95.00%	

		Lower 5ng/mL (-)		97.50%	
Operator C	Above 5ng/mL (+)	39	1	97.50%	
	Lower 5ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	

**Methylenedioxyamphetamine (MDMA)**

		MDMA500		% Agreement with LC-MS	
Operator A	Above 500ng/mL (+)	39	1	97.50%	
	Lower 500ng/mL (-)	2	38	95.00%	
	Accuracy			96.25%	
Operator B	Above 500ng/mL (+)	39	1	97.50%	
	Lower 500ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator C	Above 500ng/mL (+)	39	1	97.50%	
	Lower 500ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	

**Methamphetamine (MET500)**

		MET500		% Agreement with LC-MS	
Operator A	Above 500ng/mL (+)	40	0	100.00%	
	Lower 500ng/mL (-)	1	39	97.50%	
	Accuracy			98.75%	
Operator B	Above 500ng/mL (+)	39	1	97.50%	
	Lower 500ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator C	Above 500ng/mL (+)	39	1	97.50%	
	Lower 500ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	

**Methamphetamine (MET)**

		MET1000		% Agreement with LC-MS	
Operator A	Above 1000ng/mL (+)	39	1	97.50%	
	Lower 1000ng/mL (-)	0	40	100.00%	
	Accuracy			98.75%	
Operator B	Above 1000ng/mL (+)	39	1	97.50%	
	Lower 1000ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator C	Above 1000ng/mL (+)	39	1	97.50%	
	Lower 1000ng/mL (-)	0	40	100.00%	
	Accuracy			98.75%	

**Methadone (MTD)**

		MTD300		% Agreement with LC-MS	
Operator A	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator B	Above 300ng/mL (+)	38	2	95.00%	

		Lower 300ng/mL (-)		100.00%	
Operator C	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	0	40	100.00%	
	Accuracy			98.75%	

**Opiates (OPI)**

		OPI300		% Agreement with LC-MS	
Operator A	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator B	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	0	40	100.00%	
	Accuracy			98.75%	
Operator C	Above 300ng/mL (+)	39	1	97.50%	
	Lower 300ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	

**Opiates (OPI2000)**

		OPI2000		% Agreement with LC-MS	
Operator A	Above 2000ng/mL (+)	40	0	100.00%	
	Lower 2000ng/mL (-)	0	40	100.00%	
	Accuracy			100.00%	
Operator B	Above 2000ng/mL (+)	39	1	97.50%	
	Lower 2000ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator C	Above 2000ng/mL (+)	39	1	97.50%	
	Lower 2000ng/mL (-)	0	40	100.00%	
	Accuracy			98.75%	

**Oxycodone (OXY)**

		OXY100		% Agreement with LC-MS	
Operator A	Above 100ng/mL (+)	38	2	95.00%	
	Lower 100ng/mL (-)	1	39	97.50%	
	Accuracy			96.25%	
Operator B	Above 100ng/mL (+)	39	1	97.50%	
	Lower 100ng/mL (-)	1	39	97.50%	
	Accuracy			97.50%	
Operator C	Above 100ng/mL (+)	38	2	95.00%	
	Lower 100ng/mL (-)	1	39	97.50%	
	Accuracy			96.25%	

**Phencyclidine (PCP)**

		PCP25		% Agreement with LC-MS	
Operator A	Above 25ng/mL (+)	38	2	95.00%	
	Lower 25ng/mL (-)	1	39	97.50%	
	Accuracy			96.25%	

Operator B	Above 25ng/mL (+)	38	2	95.00%
	Lower 25ng/mL (-)	1	39	97.50%
Accuracy		96.25%		
Operator C	Above 25ng/mL (+)	39	1	97.50%
	Lower 25ng/mL (-)	1	39	97.50%
Accuracy		97.50%		

#### Propoxyphene (PPX)

Urines Sample	Results	PPX300		% Agreement with LC-MS
		+	-	
Operator A	Above 300ng/mL (+)	39	1	97.50%
	Lower 300ng/mL (-)	0	40	100.00%
	Accuracy	98.75%		
Operator B	Above 300ng/mL (+)	39	1	97.50%
	Lower 300ng/mL (-)	1	39	97.50%
	Accuracy	97.50%		
Operator C	Above 300ng/mL (+)	39	1	97.50%
	Lower 300ng/mL (-)	0	40	100.00%
	Accuracy	98.75%		

#### Nortriptyline (TCA)

Urines Sample	Results	TCA1000		% Agreement with LC-MS
		+	-	
Operator A	Above 1000ng/mL (+)	39	1	97.50%
	Lower 1000ng/mL (-)	1	39	97.50%
	Accuracy	97.50%		
Operator B	Above 1000ng/mL (+)	39	1	97.50%
	Lower 1000ng/mL (-)	1	39	97.50%
	Accuracy	97.50%		
Operator C	Above 1000ng/mL (+)	39	1	97.50%
	Lower 1000ng/mL (-)	0	40	100.00%
	Accuracy	98.75%		

#### Marijuana (THC)

Urines Sample	Results	THC50		% Agreement with LC-MS
		+	-	
Operator A	Above 50ng/mL (+)	38	2	95.00%
	Lower 50ng/mL (-)	1	39	97.50%
	Accuracy	96.25%		
Operator B	Above 50ng/mL (+)	38	2	95.00%
	Lower 50ng/mL (-)	2	38	95.00%
	Accuracy	95.00%		
Operator C	Above 50ng/mL (+)	38	2	95.00%
	Lower 50ng/mL (-)	1	39	97.50%
	Accuracy	96.25%		

#### Tramadol (TRA or TML)

Urines Sample	Results	TML100		% Agreement with LC-MS
		+	-	
Operator A	Above 100ng/mL (+)	38	2	95.00%
	Lower 100ng/mL (-)	1	39	97.50%
	Accuracy	96.25%		

Operator B	Above 100ng/mL (+)	39	1	97.50%
	Lower 100ng/mL (-)	1	39	97.50%
Accuracy		97.50%		
Operator C	Above 100ng/mL (+)	39	1	97.50%
	Lower 100ng/mL (-)	1	39	97.50%
Accuracy		97.50%		

#### Analytical Specificity/Cross-Reactivity

The specificity of each assay was determined through the testing of contrived solutions made by spiking certified standards of chemically related or structurally similar compounds into drug free urine. The relative cross-reactivity (if any) represents the minimum concentration necessary to yield a result similar to the cutoff level of the assay.

Drug	Concentration (ng/ml)	%Cross-Reactivity
<b>6-MAM</b>		
6-Monoacetylmorphine (6-MAM)	10	100%
6-acetylmorphine	10	100%
Heroin	60	16.7%
Morphine	75,000	0.01%
s-Monoacetylmorphine	10	100%
Normorphine	>100,000	--
Nalorphine HCl	>100,000	--
Hydrocodone	>100,000	--
Hydromorphone	>100,000	--
Chlordiazepoxide	>100,000	--
Clobazam	>100,000	--
D-Amphetamine	>100,000	--
(±)Amphetamine	>100,000	--
Levorphanol tartrate	>100,000	--
Codeine	>100,000	--
Ethylmorphine	>100,000	--
Morphine-3-β-D-glucuronide	>100,000	--
Norcodeine	>100,000	--
Oxycodone	>100,000	--
Oxymorphone	>100,000	--
Procaine hydrochloride	>100,000	--
Thebaine	>100,000	--
6-Acetylcodeine	>100,000	--
Buprenorphine	>100,000	--
Dihydrocodeine	>100,000	--
Dextromethorphan	>100,000	--
Imipramine hydrochloride	>100,000	--
Meperidine	>100,000	--
(±)Methadone	>100,000	--
Mitragynine(kratom)	>100,000	--
Morphine-6-β-D-glucuronide	>100,000	--
Naloxone hydrochloride	>100,000	--
Naltrexone hydrochloride	>100,000	--
Naproxen	>100,000	--
Norbuprenorphine	>100,000	--
Norbuprenorphine-3-D-Glucuronide	>100,000	--
Noroxycodone HCL	>100,000	--
Noroxymorphone HCL	>100,000	--
(+)Norpropoxyphene maleate	>100,000	--
Oxymorphone-3β-D-glucuronide	>100,000	--

Tapentadol HCl	>100,000	--
Tramadol hydrochloride	>100,000	--
<b>Amphetamine (AMP500)</b>		
D-Amphetamine	500	100%
Hydroxyamphetamine	4,000	12.5%
(+/-)-Methylenedioxyamphetamine(MDA)	200	250%
D,L-Amphetamine	500	100%
Diethylstilbestrol	2,500	20%
L-Amphetamine	25,000	2%
Phentermine	4,000	12.5%
β-Phenylethylamine	50,000	1%
Tyramine	50,000	1%
p-Hydroxynorephedrine	50,000	1%
p-Hydroxyamphetamine	50,000	1%
D,L-Norephedrine	50,000	1%
(+/-)3,4-Methylenedioxy-n-ethylamphetamine(MDEA)	100,000	0.5%
d-Methamphetamine	>100,000	--
l-Methamphetamine	>100,000	--
(+/-)3,4-Methylenedioxymethamphetamine (MDMA)	>100,000	--
Ephedrine hydrochloride	>100,000	--
Phenylpropanolamine	>100,000	--
Benzphetamine *	>100,000	--
L-Ephedrine	>100,000	--
L-Epinephrine	>100,000	--
D,L-Epinephrine	>100,000	--
<b>Amphetamine (AMP)</b>		
D-Amphetamine	1,000	100%
Hydroxyamphetamine	8000	12.5%
(+/-)-Methylenedioxyamphetamine(MDA)	400	250%
D,L-Amphetamine	1,000	100%
Diethylstilbestrol	5,000	20%
L-Amphetamine	50,000	2%
Phentermine	8,000	12.5%
β-Phenylethylamine	100,000	1%
Tyramine	100,000	1%
p-Hydroxynorephedrine	100,000	1%
D,L-Norephedrine	100,000	1%
p-Hydroxyamphetamine	100,000	1%
D-Methamphetamine	>100,000	--
L-Methamphetamine	>100,000	--
Ephedrine hydrochloride	>100,000	--
(+/-)3,4-Methylenedioxymethamphetamine (MDMA)	>100,000	--
Phenylpropanolamine	>100,000	--
Benzphetamine *	>100,000	--
L-Ephedrine	>100,000	--
L-Epinephrine	>100,000	--
D,L-Epinephrine	>100,000	--
(+/-)3,4-Methylenedioxyethylamphetamine (MDEA)	>100,000	--

<b>Secobarbital (BAR)</b>		
Secobarbital	300	100%
Alphenal	150	200%
Amobarbital	300	100%
Aprobarbital	250	120%
Butabarbital	2,500	12%
Butethal	100	300%
Cyclopentobarbital	600	50%
Pentobarbital	250	120%
Phenobarbital	250	120%
Butalbital	2,500	12%
<b>Buprenorphine (BUP)</b>		
Buprenorphine	10	100%
Buprenorphine -3-D-Glucuronide	160	6.25%
Norbuprenorphine	10	100%
Norbuprenorphine-3-D-Glucuronide	200	5%
Morphine	>100,000	--
Oxymorphone	>100,000	--
Hydromorphone	>100,000	--
<b>Oxazepam (BZO)</b>		
Oxazepam	300	100%
a-Hydroxalprazolam	1,260	23.8%
Alprazolam	200	150%
Bromazepam	1,560	19.2%
Chlordiazepoxide	1,560	19.2%
Clobazam	100	300%
Clonazepam	2,500	12%
Clorazepate Dipotassium	200	150%
Desalkylflurazepam	400	75%
Diazepam	200	150%
Estazolam	2,500	12%
Flunitrazepam	400	75%
D,L-Lorazepam	1,560	19.2%
Midazolam	12,500	2.4%
Nitrazepam	100	300%
Norchlordiazepoxide	200	150%
Nordiazepam	400	75%
Oxazepam glucuronide	500	60%
R,S-Lorazepam glucuronide	160	187.5%
Temazepam	100	300%
Triazolam	2,500	12%
Demoxepam	2,000	15%
Flurazepam	500	60%
Delorazepam	>100,000	--
<b>Cocaine (COC150)</b>		
Benzoylecogonine	150	100%
Cocaeethylene	150	100%
Cocaine hydrochloride	150	100%
Ecgonine	25,000	0.6%
Norcocaine	50,000	0.3%
Ecgonine methyl Ester	>100,000	--
<b>Cocaine (COC)</b>		

Benzoylecogonine	300	100%
Cocaeethylene	300	100%
Cocaine hydrochloride	300	100%
Ecgonine	50,000	0.6%
Norcocaine	100,000	0.3%
Ecgonine methyl ester	>100,000	--
<b>EDDP</b>		
EDDP perchlorate	300	100%
Methadone	>100,000	--
EMDP	>100,000	--
Doxylamine	>100,000	--
Disopyramide	>100,000	--
LAAM (Levo-alpha-acetylmethadol) HCl	>100,000	--
Alpha Methadol	>100,000	--
<b>Norfentanyl (FEN or FYL)</b>		
Norfentanyl	5	100%
Fentanyl	10	50%
Acetyl fentanyl	150	3.3%
Acetyl Norfentanyl	200	2.5%
(±)-β-Hydroxythiofentanyl HCl	2,500	0.2%
Acryl Fentanyl	2,500	0.2%
Butyryl Fentanyl	5,000	0.1%
Cis-d, l 3-Methylfentanyl	50,000	0.01%
Furanyl Fentanyl	10,000	0.05%
Para-fluoro butyryl Fentanyl (P-FBF)	80,000	0.01%
Para-fluoro Fentanyl	40,000	0.005%
9-HydroxyRisperidone	10,000	0.05%
Alfentanil	20,000	0.03%
Isobutyryl Fentanyl	5,000	0.1%
Norcarfentail Oxalate	50,000	0.01%
Remifentanil	15,000	0.03%
Valeryl Fentanyl	20,000	0.03%
Thienyl Fentnayl	50	10%
Trans-d, l 3-Methylfentanyl	50	10%
4-Fluoro-isobutyryl Fentanyl	>20,000	--
Despropionyl fentanyl (4-ANPP)	>20,000	--
MT-45	>100,000	--
Ocfentanil	>100,000	--
Risperidone	>100,000	--
Sufentanil	>100,000	--
Carfentanil Oxalate	>10,000	--
Labetalol Hydrochloride	>100,000	--
Trazodone	>100,000	--
U-47700	>100,000	--
ω-1-Hydroxyfentanyl	>20,000	--
<b>For Opioids compounds</b>		
6-Acetyl morphine	>100,000	--
Amphetamine	>100,000	--
Buprenorphine	>100,000	--
Buprenorphine -3-D-Glucuronide	>100,000	--
Codeine	>100,000	--
Dextromethorphan	>100,000	--
Dihydrocodeine	>100,000	--

EDDP	>100,000	--
EMDP	>100,000	--
Fluoxetine	>100,000	--
Heroin	>100,000	--
Hydrocodone	>100,000	--
Hydromorphone	>100,000	--
Ketamine	>100,000	--
Levorphanol tartrate	>100,000	--
Meperidine	>100,000	--
Methadone	>100,000	--
Morphine	>100,000	--
Morphine-3-β-D-glucuronide	>100,000	--
Naloxone hydrochloride hydrochloridehydrochloride	>100,000	--
Naltrexone hydrochloride	>100,000	--
Norbuprenorphine	>100,000	--
Norcodeine	>100,000	--
Norketamine	>100,000	--
Normeperidine	>100,000	--
Normorphine	>100,000	--
Noroxycodone	>100,000	--
Oxycodone	>100,000	--
Oxymorphone	>100,000	--
Pentazocine (Talwin)	>100,000	--
Pipamperone	>100,000	--
Tapentadol hydrochloride	>100,000	--
Thioridazine	>100,000	--
Tilidine	>100,000	--
Tramadol	>100,000	--
o-Desmethyl Tramadol	>100,000	--
n-Desmethyl Tramadol	>100,000	--
<b>Methylenedioxyamphetamine (MDMA)</b>		
(±)-MDMA	500	100%
(+/-)3,4-Methylenedioxy-n-ethylamphetamine(MDEA)	300	166.7%
(+/-)-Methylenedioxyamphetamine(MDA)	3,000	16.7%
L-Methamphetamine	50,000	1%
7-Aminoclonazepam	100,000	0.5%
d-methamphetamine	>100,000	--
d-amphetamine	>100,000	--
l-amphetamine	>100,000	--
<b>Methamphetamine (MET500)</b>		
D-Methamphetamine	500	100%
(+/-)3,4-Methylenedioxy-n-ethylamphetamine (MDEA)	10,000	5%
(±)-MDMA	1,250	40%
L-Methamphetamine	12,500	4%
Fenfluramine	25,000	2%
p-Hydroxymethamphetamine	5,000	10%
D,L-Methamphetamine	500	100%
β-Phenylethylamine	25,000	2%
Mephetermine	25,000	2%
Methoxyphenamine hydrochloride	25,000	2%

L-Amphetamine	40,000	1.25%
Ephedrine hydrochloride	100,000	0.5%
(1R,2S)-(-)-Ephedrine	100,000	0.5%
D-Amphetamine	>100,000	--
Chloroquine	>100,000	--
(+/-)-3,4-Methylenedioxyamphetamine(MDA)	>100,000	--
L-Phenylephrine	>100,000	--
Trimethobenzamide	>100,000	--
Procaine hydrochloride	>100,000	--
d/l-Amphetamine	>100,000	--
<b>Methamphetamine (MET)</b>		
D-Methamphetamine	1,000	100%
(+/-)-3,4-Methylenedioxy-n-ethylamphetamine (MDEA)	20,000	5%
(+/-)-3,4-Methylenedioxymethamphetamine (MDMA)	2,500	40%
L-Methamphetamine	25,000	4%
Fenfluramine	50,000	2%
p-Hydroxymethamphetamine	10,000	10%
D,L-Methamphetamine	1,000	100%
β-Phenylethylamine	50,000	2%
Mephetermine	50,000	2%
Methoxyphenamine hydrochloride	50,000	2%
L-Amphetamine	75,000	1.33%
D-Amphetamine	>100,000	--
D,L-Amphetamine	>100,000	--
Chloroquine	>100,000	--
Ephedrine HCl	>100,000	--
(+/-)-3,4-Methylenedioxyamphetamine (MDA)	>100,000	--
Trimethobenzamide	>100,000	--
l-phenylephrine	>100,000	--
(1R,2S)-(-)-Ephedrine	>100,000	--
Procaine hydrochloride	>100,000	--
<b>Methadone (MTD)</b>		
(±)-Methadone	300	100%
EDDP	>100,000	--
EMDP	>100,000	--
LAAM	>100,000	--
Alpha Methadol	>100,000	--
Doxylamine	>100,000	--
<b>Opiates (OPI)</b>		
Morphine	300	100%
6-acetylmorphine	400	75%
Codeine	300	100%
Dihydrocodeine	1,000	30%
Ethylmorphine	100	300%
Heroin	600	50%
Hydrocodone	500	60%
Hydromorphone	1,000	30%
Levorphanol tartrate	10,000	3%
Nalorphine HCl	50,000	0.6%
Thebaine	6,240	4.8%

s-Monoacetylmorphine	300	100%
Morphine-3-β-d-glucuronide	1,000	30%
6-Monoacetylmorphine (6-MAM)	150	200%
Codeine-6-β-D-glucuronide	150	200%
Morphine-6-β-D-glucuronide	150	200%
6-Acetylcodeine	900	33.3%
Normorphine	>100,000	--
Oxycodone	>100,000	--
Oxymorphone	>100,000	--
Norcodeine	>100,000	--
Procaine	>100,000	--
Norpropoxyphene	>100,000	--
<b>Opiates (OPI2000)</b>		
Morphine	2,000	100%
6-acetylmorphine	2,500	80%
Codeine	1,000	200%
Dihydrocodeine	1,500	133.3%
EthylMorphine	2,500	80%
Codeine-6-β-D-glucuronide	2,500	80%
Heroin	5,000	40%
Hydrocodone	5,000	40%
Hydromorphone	2,500	80%
Levorphanol tartrate	10,000	20%
Nalorphine hydrochloride	5,000	40%
Norcodeine	4,000	50%
Normorphine	5,000	40%
Oxymorphone	75,000	2.7%
s-Monoacetylmorphine	2,000	100%
Morphine-6-β-D-glucuronide	2,000	100%
Thebaine	13,000	15.4%
Morphine 3-β-D-glucuronide	2,000	100%
6-Monoacetylmorphine (6-MAM)	1,500	133%
6-Acetylcodeine	10,000	20%
Oxycodone	>100,000	--
Procaine	>100,000	--
Norpropoxyphene	>100,000	--
<b>Oxycodone (OXY)</b>		
Oxycodone	100	100%
Ethyl Oxycodone	75,000	0.13%
Hydrocodone	5,000	2%
Hydromorphone	25,000	0.4%
Levorphanol tartrate	25,000	0.4%
Naloxone hydrochloride	10,000	1%
Naltrexone hydrochloride	50,000	0.2%
Oxymorphone	200	50%
Oxymorphone-3β-D-glucuronide	500	20%
Noroxycodone	1,500	6.7%
Noroxymorphone	3,000	3.3%
Dihydrocodeine	>100,000	--
Codeine	>100,000	--
Morphine	>100,000	--
Thebaine	>100,000	--
Buprenorphine	>100,000	--
Ethylmorphine	>100,000	--

6-acetylmorphine	>100,000	--
<b>Phencyclidine (PCP)</b>		
PCP (Phencyclidine)	25	100%
4-Hydroxyphencyclidine	12,500	0.2%
<b>Propoxyphene (PPX)</b>		
Propoxyphene	300	100%
Norpropoxyphene	300	100%
<b>Nortriptyline (TCA)</b>		
Nortriptyline	1,000	100%
Amitriptyline	1,500	66.7%
Chlorpheniramine	50,000	2%
Clomipramine	10,000	10%
Cyclobenzaprine Hydrochloride	5,000	20%
Desipramine	1,000	100%
Doxepine	2,000	50%
Duloxetine	10,000	10%
Imipramine	1,000	100%
Norclomipramine	12,500	8%
Nordoxepine	1,000	100%
Promazine	50,000	2%
Trimipramine	10,000	10%
Maprotiline	>100,000	--
Promethazine hydrochloride	>100,000	--
<b>Marijuana (THC)</b>		
(±)-11-nor-9-Carboxy-Δ <sup>9</sup> -THC	50	100%
11-nor-Δ <sup>8</sup> -THC -9-COOH	30	166.7%
(-)-11-nor-9-carboxy-Δ <sup>9</sup> -THC	50	100%
11-nor-Δ <sup>9</sup> -THC -carboxy glucuronide	100	50%
11-hydroxy-Δ <sup>9</sup> -Tetrahydrocannabinol	5,000	1%
Δ <sup>8</sup> - Tetrahydrocannabinol	1,300	3.8%
Δ <sup>9</sup> - Tetrahydrocannabinol	5,000	1%
Cannabinol	20,000	0.25%
Cannabidiol	>100,000	--
(±)-11-Hydroxy-Δ <sup>9</sup> -THC	>100,000	--
<b>Tramadol (TRA or TML)</b>		
Tramadol	100	100%
n-Desmethyl Tramadol	400	25%
o-Desmethyl Tramadol	1,000	10%
o-Desmethyl Venlafaxine	>10,000	--
Venlafaxine	>100,000	--

\*Benzphetamine metabolizes to methamphetamine and amphetamine in the body, so a donor taking benzphetamine may produce positive results for AMP.

#### Precision/Reproducibility

The precision, reproducibility, and sensitivity of all twenty-two (22) drug screen tests available on the Healgen Accurate Multi-Drug Urine Screening Cup were determined over 25 days using 3 operators who conducted 2 runs per day across 3 lots of finished devices. The aliquots were masked to prevent the operators from knowing which aliquot contained what test solution. The test solutions were targeted to be drug-free, -75% of the assay cutoff, -50% of the assay cutoff, -25% of the assay cutoff, the cutoff itself, +25% of cutoff, +50% of the cutoff, +75%

of the cutoff, and 200% of the cutoff.

Data obtained from testing indicated >99% correlation at +/-50%, +/-75%, 200% and drug-free of each assay.

Drugs	Concentration (ng/mL)	n	Lot1		Lot2		Lot3	
			-	+	-	+	-	+
6-Monoacetylmorphine	0	50	50	0	50	0	50	0
	2.5	50	50	0	50	0	50	0
	5	50	50	0	50	0	50	0
	7.5	50	49	1	48	2	48	2
	10	50	26	24	24	26	24	26
	12.5	50	2	48	2	48	1	49
	15	50	0	50	0	50	0	50
	17.5	50	0	50	0	50	0	50
	20	50	0	50	0	50	0	50
Amphetamine 500	0	50	50	0	50	0	50	0
	125	50	50	0	50	0	50	0
	250	50	50	0	50	0	50	0
	375	50	49	1	50	0	49	1
	500	50	23	27	24	26	25	25
	625	50	0	50	1	49	1	49
	750	50	0	50	0	50	0	50
	875	50	0	50	0	50	0	50
	1000	50	0	50	0	50	0	50
Amphetamine	0	50	50	0	50	0	50	0
	250	50	50	0	50	0	50	0
	500	50	50	0	50	0	50	0
	750	50	50	0	50	0	50	0
	1000	50	23	27	25	25	26	24
	1250	50	0	50	0	50	0	50
	1500	50	0	50	0	50	0	50
	1750	50	0	50	0	50	0	50
	2000	50	0	50	0	50	0	50
Secobarbital	0	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	150	50	50	0	50	0	50	0
	225	50	49	1	49	1	49	1
	300	50	25	25	25	25	25	25
	375	50	1	49	1	49	1	49
	450	50	0	50	0	50	0	50
	525	50	0	50	0	50	0	50
	600	50	0	50	0	50	0	50
Buprenorphine	0	50	50	0	50	0	50	0
	2.5	50	50	0	50	0	50	0
	5	50	50	0	50	0	50	0
	7.5	50	48	2	48	2	49	1
	10	50	26	24	27	23	24	26
	12.5	50	2	48	2	48	2	48
	15	50	0	50	0	50	0	50
	17.5	50	0	50	0	50	0	50
	20	50	0	50	0	50	0	50
Oxazepam	0	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	150	50	50	0	50	0	50	0
	225	50	50	0	49	1	49	1

Drugs	Concentration (ng/mL)	n	Lot1		Lot2		Lot3	
			-	+	-	+	-	+
Benzoylcegonine	300	50	26	24	22	28	24	26
	375	50	1	49	1	49	1	49
	450	50	0	50	0	50	0	50
	525	50	0	50	0	50	0	50
	600	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	150	50	50	0	50	0	50	0
	225	50	49	1	49	1	49	1
Benzoylcegonine150	300	50	25	25	25	25	24	26
	375	50	1	49	0	50	1	49
	450	50	0	50	0	50	0	50
	525	50	0	50	0	50	0	50
	600	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	37.5	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	112.5	50	49	1	48	2	48	2
EDDP	150	50	25	25	22	28	23	27
	187.5	50	2	48	1	49	2	48
	225	50	0	50	0	50	0	50
	262.5	50	0	50	0	50	0	50
	300	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	150	50	50	0	50	0	50	0
	225	50	49	1	49	1	50	0
Norfentanyl	300	50	24	26	24	26	23	27
	375	50	1	49	1	49	1	49
	450	50	0	50	0	50	0	50
	525	50	0	50	0	50	0	50
	600	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	1.25	50	50	0	50	0	50	0
	2.5	50	50	0	50	0	50	0
	3.75	50	48	2	48	2	48	2
Methylenedioxy-methamphetamine	5	50	24	26	25	25	24	26
	6.25	50	2	48	1	49	2	48
	7.5	50	0	50	0	50	0	50
	8.75	50	0	50	0	50	0	50
	10	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	125	50	50	0	50	0	50	0
	250	50	50	0	50	0	50	0
	375	50	50	0	50	0	49	1
Methamphetamine 500	500	50	22	28	25	25	23	27
	625	50	1	49	0	50	1	49
	750	50	0	50	0	50	0	50
	875	50	0	50	0	50	0	50
	1000	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	125	50	50	0	50	0	50	0
	250	50	50	0	50	0	50	0
	500	50	50	0	50	0	50	0

Drugs	Concentration (ng/mL)	n	Lot1		Lot2		Lot3	
			-	+	-	+	-	+
Methamphetamine	375	50	49	1	49	1	48	2
	500	50	24	26	25	25	25	25
	625	50	1	49	1	49	1	49
	750	50	0	50	0	50	0	50
	875	50	0	50	0	50	0	50
	1000	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	250	50	50	0	50	0	50	0
	500	50	50	0	50	0	50	0
Methadone	750	50	50	0	50	0	50	0
	1000	50	24	26	23	27	23	27
	1250	50	0	50	0	50	0	50
	1500	50	0	50	0	50	0	50
	1750	50	0	50	0	50	0	50
	2000	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	150	50	50	0	50	0	50	0
Morphine	225	50	49	1	49	1	49	1
	300	50	23	27	24	26	25	25
	375	50	1	49	1	49	2	48
	450	50	0	50	0	50	0	50
	525	50	0	50	0	50	0	50
	600	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	150	50	50	0	50	0	50	0
Morphine2000	225	50	50	0	49	1	49	1
	300	50	25	25	24	26	24	26
	375	50	1	49	1	49	2	48
	450	50	0	50	0	50	0	50
	525	50	0	50	0	50	0	50
	600	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	500	50	50	0	50	0	50	0
	1000	50	50	0	50	0	50	0
Oxycodone	1500	50	50	0	50	0	50	0
	2000	50	26	24	25	25	23	27
	2500	50	0	50	0	50	0	50
	3000	50	0	50	0	50	0	50
	3500	50	0	50	0	50	0	50
	4000	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	25	50	50	0	50	0	50	0
	50	50	50	0	50	0	50	0
Phencyclidine	75	50	49	1	49	1	49	1
	100	50	24	26	24	26	24	26
	125	50	2	48	1	49	1	49
	150	50	0	50	0	50	0	50
	175	50	0	50	0	50	0	50
	200	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	6	50	50	0	50	0	50	0

Drugs	Concentration (ng/mL)	n	Lot1		Lot2		Lot3	
			-	+	-	+	-	+
Propoxyphene	12.5	50	50	0	50	0	50	0
	19	50	48	2	48	2	49	1
	25	50	23	27	23	27	24	26
	31	50	2	48	1	49	1	49
	37.5	50	0	50	0	50	0	50
	44	50	0	50	0	50	0	50
	50	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	75	50	50	0	50	0	50	0
	150	50	50	0	50	0	50	0
Nortriptyline	225	50	49	1	49	1	49	1
	300	50	24	26	23	27	24	26
	375	50	1	49	1	49	1	49
	450	50	0	50	0	50	0	50
	525	50	0	50	0	50	0	50
	600	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	250	50	50	0	50	0	50	0
	500	50	50	0	50	0	50	0
	750	50	50	0	50	0	50	0
11-nor-Δ <sup>9</sup> -THC-9-COOH	1000	50	24	26	24	26	24	26
	1250	50	0	50	0	50	0	50
	1500	50	0	50	0	50	0	50
	1750	50	0	50	0	50	0	50
	2000	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	12.5	50	50	0	50	0	50	0
	25	50	50	0	50	0	50	0
	37.5	50	48	2	49	1	49	1
	50	50	24	26	22	28	23	27
Tramadol	62.5	50	1	49	1	49	2	48
	75	50	0	50	0	50	0	50
	87.5	50	0	50	0	50	0	50
	100	50	0	50	0	50	0	50
	0	50	50	0	50	0	50	0
	25	50	50	0	50	0	50	0
	50	50	50	0	50	0	50	0
	75	50	49	1	48	2	48	2
	100	50	24	26	25	25	26	24
	125	50	2	48	2	48	1	49
Tramadol	150	50	0	50	0	50	0	50
	175	50	0	50	0	50	0	50
	200	50	0	50	0	50	0	50









### Interference/Non-Cross-Reacting Compounds

The following compounds were evaluated for potential positive or negative interference with the Healgen® Accurate Multi-Drug Urine Screening Cup. All compounds were dissolved in drug control solutions targeted to 50% below and 50% above their respective cutoff concentrations and tested on the Cup devices. An unaltered sample was used as control. No interference was found for the following compounds when tested at a concentration of 100 µg/mL (unless otherwise noted). All exceptions noted were positive results due to cross

reactivity with the test and the specified drug.

(-) Cotinine	Diclofenac sodium	Nitroglycerin	Baclofen	Gemfibrozil	Promazine(except TCA test)
3-Hydroxytyramine	Diflunisal	Norethindrone	Benzilic acid	Gentisic acid	Promethazine
7-Aminoclonazepam(except MDMA test)	Digoxin	Norpropoxyphene	Benzocaine	Glucose(3000 mg/dL)	Propoxyphene(except PPX test)
7-Aminoflunitrazepam	Dimethyl-aminoantipyrine	Norpseudoephedrine	Benzoic acid	Guaiacolglyceryl ether	Propranolol
7-Aminonitrazepam	Diphenhydramine HCl	Nortriptyline(except TCA test)	Benzoylcegonine(except COC test)	Hemoglobin	Pseudoephedrine
Acetaminophen	Diphenylhydantoin	Noscapine	Benzphetamine	Hexobarbital	Pyridoxine
Acetone (1000 mg/dL)	Disopyramide	Octopamine	Benzylpiperiazine	Hydralazine	Pyrilamine
Acetophenetidin	Dopamine HCl	O-Hydroxyhippuric acid	Bilirubin	Hydrochlorothiazide	Pyrogallol
Acetylsalicylic acid	Doxepine(except TCA test)	Olanzapine	Boric Acid (1%)	Hydrocortisone	Quetiapine
Acyclovir	Doxylamine	Omeprazole	Bromo-2,5-Dimethoxyphenethylamine	Hydroxybutyric Acid	Quinidine
Albumin(100mg/dL)	D-Pseudoephedrine	Oxalic acid (100mg/dL)	Bupropion	Ibuprofen	Quinine
Albuterol	Duloxetine(except TCA test)	Oxazepam (except BZO test)	Caffeine	Imipramine(except TCA test)	Quinolinic Acid
Albuterol sulfate(Proair HFA)	Ecgonine methyl ester	Oxazepam	Cannabidiol	Isoproterenol	Ranitidine
Alpha Methadol	EMDP	Oxolonic acid	Captopril	Isoxsuprine	Riboflavin
Aminophylline	Ephedrine hydrochloride(except MET test)	Oxymetazoline	Carbamazepine	Ketamine	Rifampicin
Aminopyrine	Erythromycin	Paliperidone	Carfentanil	Ketoprofen	Salicylic acid
Amitriptyline(except TCA test)	Esomeprazole	Papaverine	Carisoprodol	LAAM HCl	Secobarbital(except BAR test)
Amlodipine besylate	Magnesium	Penicillin-G	Cefradine	Labetalol	Serotonin
Amobarbital(except BAR test)	Estradiol	PenicillinV Potassium	Cephalexin	Lamotrigine	Serotonin (5-Hydroxytyramine)
Amoxicillin	Ethanol(1%)	Perphenazine	Cetirizine	L-Ephedrine	Sertraline
Ampicillin	Fenfluramine(except MET test)	Phenacetin	Chloral hydrate	L-Epinephrine	Sildenafil Citrate
Apomorphine	Fenofibrate	Phencyclidine(except PCP test)	Chloramphenicol	Levofloxacin	Simvastatin
Aripiprazole	Fenoprofen	Phenelzine	Chlordiazepoxide(except BZO test)	Hydrochloride	Sodium Azide
Ascorbic acid	Fluoxetine	Phenylethylamine	Chloroquine	Levonorgestrel	Sulfamethazine
Aspartame	Fluphenazine	Phenobarbital(except BAR test)	Chlorothiazide	Levothyroxine	Sulindac
Aspirin	Fotemustine	Phentermine(except AMP test)	Chlorpheniramine(except TCA test)	Lidocaine	Sulindac
Atomoxetine	Furosemide	Phenylpropanolamine	Chlorpromazine	Hydrochloride	Sulindac
Atorvastatin Calcium	Gabapentin	Prednisone	Cholesterol	Lisinopril	Telmisartan
Atropine	Galactose	Pregablin	Ciprofloxacin Hydrochloride	Loperamide	Tetracycline
Azithromycin	Gatifloxacin	Procaine	Citalopram	Loratadine	Tetrahydrocortisone 3-(β-Dglucuronide)
			Clarithromycin	Lorazepam	Tetrahydrocortisone, 3-acetate
				L-phenylephrine	Tetrahydrozoline
				LSD	THC (except THC test)

**SYMBOL INDEX**

	Do not reuse		See Instruction for Use		Expiration Date
	Tests per Kit		Store Between 2-30°C (36-86°F)		Keep Dry
<b>LOT</b>	Batch Number	<b>REF</b>	Catalog#		Keep Away from Sunlight
<b>UDI</b>	Unique Device Identifier	<b>IVD</b>	For <i>in vitro</i> diagnostic use only		Manufacturer

**ASSISTANCE**

If you have any questions regarding the use of this product, call Technical Support 1-866-982-3818 (Monday-Friday 8:30 a.m. to 5 p.m. CDT).

BXXXXX-XX  
Revision Date: 2024-12-17

Clofibrate	L-thyroxine	Theophylline
Clomipramine(except TCA test)	Magnesium	Thiamine
Clonidine	Maprotiline	Thioridazine Trazodone
Clozapine	Meperidine	Hydrochloride
Conjugated Estrogens	Meprobamate	Triamterene
Cortisone	Metformin	Trifluoperazine
Creatine Hydrate	Methapyrilene	Trifluoromethylphenyl- piperazine
Creatinine	Methaqualone	Trimethobenzamide
Cyclobenzaprine(except TCA test)	Methoxyphenamine (except MET test)	Trimethoprim
Cyproheptadine	Methylphenidate	Tryptamine
D,L-Epinephrine	Metoprolol Tartrate	Tyramine (except AMP test)
D,L-Isoproterenol	Metronidazole	Urea (2000 mg/dL)
D,L-Lorazepam (except BZO test)	Mifepristone	Uric acid
D,L-Octopamine	N-Acetylprocainamide (except MET test)	Valproic acid (250 µg/mL)
D,L-Propranolol	NaCl (4000 mg/dL)	Venlafaxine HCl
D,L-Tryptophan	Nalidixic acid	Verapamil
D,L-Tyrosine	Naloxone hydrochloride(except OXY test)	Vitamin B2
Delorazepam	Naltrexone hydrochloride(except OXY test)	Vitamin C
Demoxepam(except BZO test)	Naproxen	Zaleplon
Deoxycorticosterone	N-desmethyl Tapentadol	Zolpidem
Desloratadine	Niacinamide	Zomepirac
Desipramine(except TCA test)	Nicotine	β-Estradiol
Dextromethorphan	Nicotinic Acid	γ-Cyclodextrin
Diclofenac	Nifedipine	γ-Globulin (500mg/dL)

**BIBLIOGRAPHY/SUGGESTED READING**

1. Baselt RC. Disposition of Toxic Drugs and Chemicals in Man. 10<sup>th</sup> ed. Seal Beach, CA: Biomedical Pub