Effective Date: 2014-07-10





One Step Screen Test Panel (Urine) Package Insert English

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

Amphetamine 300, Amphetamine 500, Amphetamine, Barbiturates, Benzodiazepines 200, Benzodiazepines, Buprenorphine 5, Buprenorphine, Clonazepam, Cocaine 150, Cocaine, Cotinine, Fentanyl, Ketamine, Marijuana 20, Marijuana, Marijuana 150, Methadone, EDDP 100 (Methadone metabolite), EDDP 300 (Methadone metabolite), Methamphetamine 300, Methamphetamine 500, Methamphetamine, Methylenedioxymethamphetamine, Morphine 300, Opiate 2000, Oxycodone, Phencyclidine, Propoxyphene, Tramadol and Tricyclic Antidepressants.

Including Specimen Validity Tests (S.V.T.) for Oxidants/Pyridinium Chlorochromate (OX/PCC), Specific Gravity (S.G.), pH, Nitrite (NIT), Glutaraldehyde (GLUT) and Creatinine (CRE).

A rapid, one step screen test for the simultaneous, qualitative detection of multiple drugs and metabolites in human urine. For medical and other professional in vitro diagnostic use only.

INTENDED USE & SUMMARY

Urine based screen tests for multiple drugs of abuse range from simple immunoassay tests to complex analytical procedures. The speed and sensitivity of immunoassays have made them the most widely accepted method to screen urine for multiple drugs of abuse.

The SPINREACT Multi-Drug One Step Screen Test Panel (Urine) is a lateral flow chromatographic immunoassay for the qualitative detection of following drugs without the need of instruments.

Test	Calibrator	Cut-off (ng/mL)
Amphetamine (AMP 300)	d-Amphetamine	300
Amphetamine (AMP 500)	d-Amphetamine	500
Amphetamine (AMP)	d-Amphetamine	1,000
Barbiturates (BAR)	Secobarbital	300
Benzodiazepines (BZO 200)	Oxazepam	200
Benzodiazepines (BZO)	Oxazepam	300
Buprenorphine (BUP 5)	Buprenorphine	5
Buprenorphine (BUP)	Buprenorphine	10
Clonazepam (ACL)	7-Aminoclonazepam	100
Cocaine (COC 150)	Benzoylecgonine	150
Cocaine (COC)	Benzoylecgonine	300
Cotinine (COT)	Cotinine	100
Fentanyl (FTY)	Norfentanyl	20
Ketamine (KET)	Ketamine	1,000
Marijuana (THC 20)	11-nor-Δ ⁹ -THC-9 COOH	20
Marijuana (THC)	11-nor-Δ ⁹ -THC-9 COOH	50
Marijuana (THC 150)	11-nor-Δ ⁹ -THC-9 COOH	150
Methadone (MTD)	Methadone	300
Methadone metabolite (EDDP 100)	2-Ethylidene-1,5-dimethyl-3,3-dipheylpyrrolidine (EDDP)	100

Methadone metabolite (EDDP 300)	2-Ethylidene-1,5-dimethyl-3,3-dipheylpyrrolidine (EDDP)	300
Methamphetamine (MET 300)	d-Methamphetamine	300
Methamphetamine (MET 500)	d-Methamphetamine	500
Methamphetamine (MET)	d-Methamphetamine	1,000
Methylenedioxymethamphetamine (MDMA)	d,l-Methylenedioxymethamphetamine	500
Morphine (MOP 300)	Morphine	300
Opiate (OPI 2000)	Morphine	2,000
Oxycodone (OXY)	Oxycodone	100
Phencyclidine (PCP)	Phencyclidine	25
Propoxyphene (PPX)	Propoxyphene	300
Tramadol (TRA)	Tramadol	100
Tricyclic Antidepressants (TCA)	Nortriptyline	1,000

This test will detect other related compounds, please refer to the Analytical Specificity table in this package insert.

Configurations of the SPINREACT Multi-Drug One Step Screen Test Panel (Urine) come with any combination of the above listed drug analytes with or without S.V.T. This assay provides only a preliminary analytical test result. A more specific alternate chemical method must be used in order to obtain a confirmed analytical result. Gas chromatography/mass spectrometry (GC/MS) is the preferred confirmatory method. Clinical consideration and professional judgment should be applied to any drug of abuse test result, particularly when preliminary positive results are indicated.

S.V.T. SUMMARY

Each S.V.T. strip contains chemically treated reagent pads. Three to five minutes following the activation of the reagent pads by the urine sample, the colors that appear on the pads can be compared with the printed color chart card. The color comparison provides a semi-quantitative screen for any combination of oxidants/pyridinium chlorochromate (PCC), specific gravity, pH, nitrite, glutaraldehyde and creatinine in human urine which can help assess the integrity of the urine sample.

PRINCIPLE

The SPINREACT Multi-Drug One Step Screen Test Panel (Urine) 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 its cut-off concentration, will not saturate the binding sites of its 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 its cut-off concentration because it will saturate all the binding sites of the 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

S.V.T. PRINCIPLE

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 pH and specific gravity and to detect the presence of oxidants/PCC, specific gravity, pH, nitrite, glutaraldehyde and creatinine in urine.

English 1

- Oxidants/PCC (Pyridinium chlorochromate) tests for the presence of oxidizing agents such as bleach and hydrogen peroxide. Pyridinium Chlorochromate is a commonly used adulterant.² Normal human urine should not contain oxidants or PCC.
- Specific gravity tests for sample dilution. The normal range is from 1.003 to 1.030. Values outside this range may be the result of specimen dilution or 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 the sample has been
- Nitrite tests for commonly used commercial adulterants such as Klear or Whizzies. They work by oxidizing the major cannabinoid metabolite THC-COOH.3 Normal urine should contain no trace of nitrite. Positive results generally indicate the presence of an adulterant.
- Glutaraldehyde tests for the presence of an aldehyde. Adulterants such as UrinAid and Clear Choice contain glutaraldehyde which may cause false negative screening results by disrupting the enzyme used in some immunoassay tests.² Glutaraldehyde is not normally found in urine; therefore, detection of glutaraldehyde in a urine specimen is generally an indicator of adulteration.
- Creatinine is a waste product of creatine, an amino acid contained in muscle tissue and found in urine. A person may attempt to foil a 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 in an attempt to circumvent drug testing. Low creatinine and specific gravity levels may indicate dilute urine. The absence of creatinine (< 5 mg/dL) is indicative of a specimen not consistent with human urine.

REAGENTS

Each test contains specific drug antibody-coupled particles and corresponding drug-protein conjugates. A goat antibody is employed in each control line.

S.V.T. REAGENTS

Adulteration Pad	Reactive indicator	Buffers and non-reactive ingredients
Oxidants/PCC	0.36%	99.64%
Specific Gravity	0.25%	99.75%
pН	0.06%	99.94%
Nitrite	0.07%	99.93%
Glutaraldehyde	0.02%	99.98%
Creatinine	0.04%	99.96%

PRECAUTIONS

- For medical and other professional in vitro diagnostic use only. Do not use after the expiration date.
- The test panel should remain in the sealed pouch until use.
- All specimens should be considered potentially hazardous and handled in the same manner as
- The used test panel should be discarded according to local regulations.

STORAGE AND STABILITY

Store as packaged in the sealed pouch either at room temperature or refrigerated (2-30°C). The test panel is stable through the expiration date printed on the sealed pouch. The test panel must remain in the sealed pouch until use. **DO NOT FREEZE**. Do not use beyond the expiration date.

SPECIMEN COLLECTION AND PREPARATION

Urine Assav

The urine specimen must be collected in a clean and dry container. Urine collected at any time of the day may be used. Urine specimens exhibiting visible precipitates should be centrifuged, filtered, or allowed to settle to obtain a clear supernatant for testing.

Specimen Storage

Urine specimens may be stored at 2-8°C for up to 48 hours prior to testing. For prolonged storage, specimens may be frozen and stored below -20°C. Frozen specimens should be thawed and mixed well before testing. When tests include S.V.T., storage of urine specimens should not exceed 2 hours at room temperature or 4 hours refrigerated prior to testing. For best results, test specimens immediately following collection.

MATERIALS

Materials Provided

- Test panels SVT/Adulterant color chart (if applicable)
 - Package insert

Materials Required But Not Provided

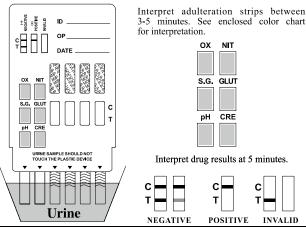
• Specimen collection container

Timer

DIRECTIONS FOR USE

Allow the test panel, urine specimen, and/or controls to equilibrate to room temperature (15-30°C) prior to testing.

- 1. Remove the test card from the sealed pouch and use it as soon as possible. Remove the cap from the end of the test card. With arrows pointing toward the urine specimen, immerse the strip(s) of the test card vertically in the urine specimen for at least 10-15 seconds. Immerse the strip(s) to at least the level of the wavy lines, but not above the arrow(s) on the test card.
- 2. Replace the cap and place the test card on a non-absorbent flat surface, start the timer and wait for the colored line(s) to appear.
- 3. Read the adulteration strip between 3 and 5 minutes by comparing the colors on the adulteration strip to the enclosed color chart. If the result indicates adulteration, do not interpret the drug test results. Either retest the urine or collect another specimen.
- 4. Read the drug strip results at 5 minutes. Do not read results after 10 minutes.



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

NEGATIVE:* A colored line in the control line region (C) and a colored line in the test line region (T) for a specific drug indicate a negative result. This indicates that the drug concentration in the urine specimen is below the designated cut-off level for that specific drug.

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

POSITIVE: A colored line in the control line region (C) but no line in the test line region (T) for a specific drug indicates a positive result. This indicates that the drug concentration in the urine specimen exceeds the designated cut-off for that specific drug.

INVALID: Control line fails to appear. Insufficient specimen volume or incorrect procedural

techniques are the most likely reasons for control line failure. Review the procedure and repeat the test using a new test panel. If the problem persists, discontinue using the lot immediately and contact your local distributor.

SVT/ADULTERANT INTERPRETATION

(Please refer to the color chart)

Semi-quantitative results are obtained by visually comparing the reacted color blocks on the strips to the printed color blocks on the color chart. No instrumentation is required.

QUALITY CONTROL

A procedural control is included in the test. A colored line appearing in the control line region (C) is considered an internal procedural control. It confirms sufficient specimen volume, adequate membrane wicking and correct procedural technique.

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

LIMITATIONS

- The SPINREACT Multi-Drug One Step Screen Test Panel (Urine) provides only a
 preliminary analytical result. A more specific chemical method must be used to obtain a
 confirmed result. Gas chromatography/mass spectrometry (GC/MS) is the preferred
 confirmatory method.^{4,5}
- 2. It is possible that technical or procedural errors, as well as other interfering substances in the urine specimen may cause erroneous results.
- Adulterants, such as bleach and/or alum, in urine specimens may produce erroneous results regardless of the analytical method used. If adulteration is suspected, the test should be repeated with another urine specimen.
- 4. A positive result indicates presence of the drug or its metabolites but does not indicate level of intoxication, administration route or concentration in urine.
- A negative result may not necessarily indicate drug-free urine. Negative results can be obtained when drug is present but below the cut-off level of the test.
- 6. The test does not distinguish between drugs of abuse and certain medications.
- 7. A positive result might be obtained from certain foods or food supplements.

S.V.T. ADULTERATION LIMITATIONS

- The adulteration tests included with this product 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.
- 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.
- Specific Gravity: Elevated levels of protein in urine may cause abnormally high specific gravity values.
- 4. 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: 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.
- Creatinine: Normal creatinine levels are between 20 and 350 mg/dL. Under rare conditions, certain kidney diseases may show dilute urine.

PERFORMANCE CHARACTERISTICS

Accuracy

A side-by-side comparison was conducted using the SPINREACT Multi-Drug One Step Screen Test Panel (Urine) and commercially available drug rapid tests. Testing was performed on approximately 300 specimens previously collected from subjects present for drug screen English 2

testing. Presumptive positive results were confirmed by GC/MS. The following results were tabulated:

% Agreement with Commercial Kit

Specimen	AMP 300	AMP 500	AMP	BAR	BZO 200	BZO	BUP 5	BUP**	ACL	COC 150	COC
Positive	>99%	*	97%	>99%	*	90%	*	88%	*	>99%	95%
Negative	>99%	*	>99%	99%	*	97%	*	>99%	*	>99%	>99%
Total	>99%	*	98%	99%	*	94%	*	97%	*	>99%	98%

Specimen	COT	FTY	KET	THC 20	ТНС	THC 150	MTD	EDDP 100	EDDP 300	MET 300
Positive	>99%	*	*	*	98%	*	>99%	*	*	*
Negative	>99%	*	*	*	>99%	*	>99%	*	*	*
Total	>99%	*	*	*	99%	*	>99%	*	*	*

Specimen	MET 500	MET	MDMA	MOP 300	OPI 2000	OXY	PCP	PPX	TRA	TCA
Positive	>99%	98%	>99%	>99%	99%	96%	98%	>99%	*	95%
Negative	80%	>99%	99%	>99%	>99%	99%	>99%	>99%	*	>99%
Total	87%	99%	99%	>99%	>99%	98%	>99%	>99%	*	99%

^{*} NOTE: Commercial kit unavailable for comparison testing.

% Agreement with GC/MS

Specimen	AMP 300	AMP 500	AMP	BAR	BZO 200	BZO	BUP 5	BUP*	ACL	COC 150	COC
Positive	>99%	95%	97%	92%	98%	97%	>99%	98%	>99%	99%	96%
Negative	99%	>99%	95%	98%	99%	95%	>99%	>99%	>99%	99%	90%
Total	99%	98%	96%	95%	99%	96%	>99%	>99%	>99%	99%	93%

Specimen	COT*	FTY*	KET	THC 20	ТНС	THC 150	MTD	EDDP 100	EDDP 300	MET 300
Positive	>99%	99%	>99%	87%	96%	91%	99%	98%	>99%	97%
Negative	>99%	90%	95%	99%	97%	96%	94%	>99%	94%	>99%
Total	>99%	93%	95%	95%	96%	96%	96%	99%	96%	98%

Specimen	MET 500	MET	MDMA	MOP 300	OPI 2000	OXY	PCP	PPX	TRA*	TCA**
Positive	>99%	99%	97%	>99%	98%	99%	>99%	94%	99%	>99%
Negative	97%	94%	>99%	94%	97%	98%	96%	99%	96%	89%
Total	98%	96%	98%	97%	98%	99%	97%	96%	97%	91%

^{*} NOTE: BUP, COT, FTY and TRA were based on LC/MS data instead of GC/MS.

Analytical Sensitivity

A drug-free urine pool was spiked with drugs to the concentrations at \pm 50% cut-off and \pm 25% cut-off. The results are summarized below.

Drug Conc.	AMP 300		AMF	MP 500		AMP		BAR		BZO 200		BZO		BUP 5		BUP	
(Cut-off range)	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	
0% Cut-off	30	0	30	0	30	0	30	0	60	0	30	0	90	0	90	0	
-50% Cut-off	30	0	30	0	30	0	30	0	60	0	30	0	90	0	90	0	
-25% Cut-off	27	3	25	5	22	8	27	3	60	0	27	3	64	26	75	15	
Cut-off	13	17	11	19	12	18	22	8	22	38	11	19	21	69	60	30	
+25% Cut-off	4	26	5	25	2	28	8	22	2	58	5	25	0	90	31	59	
+50% Cut-off	0	30	0	30	0	30	2	28	0	60	0	30	0	90	0	90	

^{**} NOTE: BUP was compared to the self-reported use of Buprenorphine.

^{**} NOTE: TCA was based on HPLC data instead of GC/MS.

Drug Conc.	A(CL	COC 150		CC	COC		COT		FTY		KET		THC 20		THC	
(Cut-off range)	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	
0% Cut-off	90	0	30	0	30	0	90	0	90	0	90	0	30	0	30	0	
-50% Cut-off	90	0	30	0	30	0	90	0	90	0	90	0	30	0	30	0	
-25% Cut-off	82	8	24	6	30	0	90	0	85	5	90	0	27	3	12	18	
Cut-off	39	51	14	16	4	26	46	44	49	41	57	33	24	6	1	29	
+25% Cut-off	0	90	7	23	0	30	5	85	13	77	3	87	17	13	1	29	
+50% Cut-off	0	90	0	30	0	30	0	90	0	90	0	90	5	25	0	30	

Drug Conc.	THO	150	M	ΓD	EDD	P 100	EDD	P 300	ME	Г 300	MET	500	M	ET
(Cut-off range)	-	+	ı	+	-	+	1	+	•	+	ı	+	-	+
0% Cut-off	90	0	30	0	90	0	90	0	30	0	30	0	30	0
-50% Cut-off	90	0	29	1	90	0	90	0	30	0	30	0	30	0
-25% Cut-off	90	0	24	6	90	0	90	0	27	3	23	7	30	0
Cut-off	46	44	21	9	37	53	51	39	15	15	13	17	18	12
+25% Cut-off	5	85	2	28	8	82	14	76	4	26	8	22	1	29
+50% Cut-off	0	90	0	30	0	90	0	90	0	30	0	30	0	30

Drug Conc.	MD	MA	МО	P 300	OPI	2000	O	ΧY	PC	CP	PP	X	TO	CA	TI	RA
(Cut-off range)	-	+	-	+	-	+	1	+	-	+	-	+	•	+	1	+
0% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	90	0
-50% Cut-off	30	0	30	0	30	0	30	0	30	0	30	0	30	0	90	0
-25% Cut-off	26	4	25	5	25	5	30	0	19	11	24	6	29	1	90	0
Cut-off	17	13	17	13	15	15	18	12	16	14	17	13	18	12	61	29
+25% Cut-off	4	26	1	29	6	24	6	24	6	24	7	23	5	25	21	69
+50% Cut-off	0	30	0	30	0	30	0	30	0	30	0	30	0	30	2	88

Analytical Specificity

The following tables lists the concentration of compounds (ng/mL) that are detected positive in urine by the SPINREACT Multi-Drug One Step Screen Test Panel (Urine) at 5 minutes.

AMPHETAMINE 300				
d-Amphetamine	300			
d,l-Amphetamine	390			
l-Amphetamine	50,000			
p-Hydroxyamphetamine	1,560			
p-Hydroxynorephedrine	100,000			
3,4-Methylenedioxyamphetamine (MDA)	1,560			
β-Phenylethylamine	100,000			
Phenylpropanolamine (d,l-Norephedrine)	100,000			
Tyramine	100,000			
AMPHETAMINE 500				
d-Amphetamine	500			
d,l-Amphetamine	1,500			
3,4-Methylenedioxyamphetamine (MDA)	800			
Phentermine	1,500			
β-Phenylethylamine	50,000			
Tryptamine	50,000			
Tyramine	25,000			
AMPHETAMINE				

FENTANYL	
Norfentanyl	20
Alfentanyl	562,500
Buspirone	12,500
Fenfluramine	37,500
Fentanyl	100
Sufentanyl	57,500
KETAMINE	
Ketamine	1,000
Norketamine	50,000
Pentobarbital	50,000
Secobarbital	100,000
MARIJUANA 20	
11-nor-Δ ⁸ -THC-9 COOH	20
11-nor-Δ ⁹ -THC-9 COOH	20
Cannabinol	12,500
Δ^8 – THC	10,000
Δ^9 – THC	12,500

d-Amphetamine	1,000
d,l-Amphetamine	3,000
1-Amphetamine	50,000
d,l-3,4-Methylenedioxyamphetamine (MDA)	2,000
Phentermine	3,000
BARBITURATES	
Secobarbital	300
Alphenal	150
Amobarbital	300
Aprobarbital	200
Butabarbital	75
Butalbital	2,500
Butethal	100
Cyclopentobarbital	600
Pentobarbital	300
Phenobarbital	100
BENZODIAZEPINES 200	
Oxazepam	200
Alprazolam	30
7-Aminoclonazepam	4,000
7-Aminoflunitrazepam	390
7-Aminonitrazepam	625
Bromazepam	390
Chlordiazepoxide	300
Clobazam	48
Clorazepate	97
Desalkylflurazepam	1,560
Diazepam	97
Estazolam	125
Flunitrazepam	25,000
$\alpha\text{-Hydroxyalprazolam}$	30
d-Lorazepam	3,125
Midazolam	195
Nitrazepam	780
Norchlordiazepoxide	780
Nordiazepam	780
Temazepam	33
Triazolam	150
BENZODIAZEPINES]
Oxazepam	300
Alprazolam	196
Bromazepam	1,562
Chlordiazepoxide	1,562
Clobazam	98
Clonazepam	781
Clorazepate	195
Delorazepam	1,562
Desalkylflurazepam	390
Diazepam	195

11-nor-Δ ⁹ -THC-9 COOH	50
11-nor-Δ ⁸ -THC-9 COOH	30
Cannabinol	20,000
Δ^8 – THC	15,000
Δ^9 – THC	15,000
MARIJUANA 150	
11-nor-Δ ⁹ -THC-9 COOH	150
11-nor-Δ ⁸ -THC-9 COOH	500
Cannabinol	25,000
Δ^8 – THC	25,000
Δ^9 – THC	25,000
METHADONE	
Methadone	300
Doxylamine	50,000
EDDP 100	
2-Ethylidene-1,5-dimethyl-3,3-	100
diphenylpyrrolidine (EDDP)	100
EDDP 300	ı
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	300
METHAMPHETAMINE 300	l
d-Methamphetamine	300
d,l-Amphetamine	100,000
Chloroquine	25,000
Ephedrine	100,000
(1R,2S)-1-Ephedrine	100,000
1-Epinephrine	50,000
Fenfluramine	12,500
p-Hydroxymethamphetamine	25,000
Mephentermine	50,000
l-Methamphetamine	3,125
3,4-Methylenedioxymethamphetamine (MDMA)	780
Trimethobenzamide	25,000
METHAMPHETAMINE 500	20,000
d-Methamphetamine	500
d,l-Amphetamine	75,000
d-Amphetamine	50,000
Chloroquine	12,500
(1R,2S)-l-Ephedrine	50,000
p-Hydroxymethamphetamine	15,000
Mephentermine Mephentermine	25,000
l-Methamphetamine	4,000
3,4-Methylenedioxymethamphetamine (MDMA)	1,000
l-Phenylephrine	100,000
β-Phenylethylamine	75,000
METHAMPHETAMINE	75,000
	1.000
d-Methamphetamine	1,000
p-Hydroxymethamphetamine Manhantarmina	30,000
Methamphetamine	50,000
l-Methamphetamine	8,000
d,l-3,4-Methylenedioxymethamphetamine (MDMA)	2,000

2,500
390
1,262
1,562
156
12,500
98
195
390
98
2,500
5
7
10
120
10
15
20
200
100
6
6
5
6
24
6
49
50
100
12
25
2
100
5
10
1
400
10,000
10,000
200
200
200
200 12 50
200 12 50 6 98
200 12 50 6 98 10,000
200 12 50 6 98

d.I-3,4-Methylenedioxymethamphetamine (MDA) 3,000 d.I-3,4-Methylenedioxyamphetamine (MDA) 3,000 3,4-Methylenedioxyethylamphetamine (MDA) 3,000 MORPHINE 300 300 Morphine 300 Codeine 300 Ethylmorphine 6,250 Hydrocodone 50,000 Hydromorphone 1,500 6-Monoacetylmorphine (6-MAM) 400 Morphine 3-β-D-glucuronide 1,000 Normorphine 100,000 Oxycodone 30,000 Oxymorphone 100,000 Procaine 15,000 Thebaine 6,250 OPIATE 2000 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Normorphine 50,000 Oxycodone 25,000 Procaine 150,000 Thebaine 100	METHYLENEDIOXYMETHAMPHETAMINE (M	MDMA)
3.4-Methylenedioxyethylamphetamine (MDEA) 300 MORPHINE 300 300 Codeine 300 Ethylmorphine 6,250 Hydrocodone 50,000 Hydromorphone 3,125 Levorphanol 1,500 6-Monoacetylmorphine (6-MAM) 400 Morphine 3-β-D-glucuronide 1,000 Norcodeine 6,250 Normorphine 100,000 Oxycodone 30,000 Oxymorphone 100,000 Procaine 15,000 Thebaine 2,200 OPIATE 2000 2,000 Morphine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Norrocdeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxycodone 25,000 Oxycodone 25,000 Procaine 100 <td>d,l-3,4-Methylenedioxymethamphetamine (MDMA)</td> <td>500</td>	d,l-3,4-Methylenedioxymethamphetamine (MDMA)	500
MORPHINE 300 Morphine 300 Codeine 300 Ethylmorphine 6,250 Hydrocodone 50,000 Hydromorphone 3,125 Levorphanol 1,500 6-Monoacetylmorphine (6-MAM) 400 Morphine 3-β-D-glucuronide 1,000 Norcodeine 6,250 Normorphine 100,000 Oxycodone 30,000 Oxymorphone 100,000 Procaine 15,000 Thebaine 6,250 OPIATE 2000 2,000 Morphine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Normorphine 50,000 Normorphine 50,000 Normorphine 25,000 Oxycodone 25,000 Oxycodone 25,000 Procaine 150,000 Thebaine	d,l-3,4-Methylenedioxyamphetamine (MDA)	3,000
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Codeine 300 Ethylmorphine 6,250 Hydrocodone 50,000 Hydromorphone 3,125 Levorphanol 1,500 6-Monoacetylmorphine (6-MAM) 400 Morphine 3-β-D-glucuronide 1,000 Norcodeine 6,250 Normorphine 100,000 Oxycodone 30,000 Oxymorphone 100,000 Procaine 15,000 Thebaine 6,250 OPIATE 2000 Valor Morphine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Norcodeine 12,500 Normorphine 50,000 Normorphine 25,000 Oxycodone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 50,000 Hydromorphone 50,000	MORPHINE 300	
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Hydrocodone	Codeine	300
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Levorphanol	Hydrocodone	50,000
6-Monoacetylmorphine (6-MAM) 400 Morphine 3-β-D-glucuronide 1,000 Norcodeine 6,250 Normorphine 100,000 Oxycodone 30,000 Oxymorphone 15,000 Thebaine 6,250 OPIATE 2000 Morphine 2,000 Codeine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Normorphine 50,000 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naloxone 37,500 Naloxone 37,500 Naloxone 25 4-Hydroxyphencyclidine 25	Hydromorphone	3,125
Morphine 3-β-D-glucuronide	Levorphanol	1,500
Norcodeine 6,250 Normorphine 100,000 Oxycodone 30,000 Oxymorphone 100,000 Procaine 15,000 Thebaine 6,250 OPIATE 2000 Morphine 2,000 Codeine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 0XYCODONE Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Oxymorphone 200 PHENCYCLIDINE	6-Monoacetylmorphine (6-MAM)	400
Normorphine 100,000 Oxycodone 30,000 Oxymorphone 100,000 Procaine 15,000 Thebaine 6,250 OPIATE 2000	Morphine 3-β-D-glucuronide	1,000
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Procaine 15,000 Thebaine 6,250 OPIATE 2000 Morphine 2,000 Codeine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300	Oxycodone	30,000
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OPIATE 2000 Morphine 2,000 Codeine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE 300 d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL <	Procaine	15,000
Morphine 2,000 Codeine 2,000 Ethylmorphine 5,000 Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE 300 d-Propoxyphene 300 Hydroxyphone 300	Thebaine	6,250
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Hydrocodone 12,500 Hydromorphone 5,000 Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene d-Norpropoxyphene 300 TRAMADOL	Codeine	2,000
Hydromorphone 5,000	Ethylmorphine	5,000
Levorphanol 75,000 6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE 12,500 d-Propoxyphene 300 TRAMADOL 300	Hydrocodone	12,500
6-Monoacetylmorphine (6-MAM) 5,000 Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE Oxycodone 6,250 Hydrocodone 50,000 Hydrocodone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 TRAMADOL	Hydromorphone	5,000
Morphine 3-β-D-glucuronide 2,000 Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Levorphanol	75,000
Norcodeine 12,500 Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	6-Monoacetylmorphine (6-MAM)	5,000
Normorphine 50,000 Oxycodone 25,000 Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Morphine 3-β-D-glucuronide	2,000
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Oxymorphone 25,000 Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Normorphine	50,000
Procaine 150,000 Thebaine 100,000 OXYCODONE 100 Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Oxycodone	25,000
Thebaine 100,000 OXYCODONE 100 Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Oxymorphone	25,000
OXYCODONE Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Procaine	150,000
Oxycodone 100 Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Thebaine	100,000
Hydrocodone 6,250 Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	OXYCODONE	
Hydromorphone 50,000 Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Oxycodone	100
Levorphanol 50,000 Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Hydrocodone	6,250
Naloxone 37,500 Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Hydromorphone	50,000
Naltrexone 37,500 Oxymorphone 200 PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Levorphanol	
Oxymorphone 200 PHENCYCLIDINE 25 Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE 300 d-Propoxyphene 300 TRAMADOL 300	Naloxone	37,500
PHENCYCLIDINE Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE 300 d-Norpropoxyphene 300 TRAMADOL	Naltrexone	37,500
Phencyclidine 25 4-Hydroxyphencyclidine 12,500 PROPOXYPHENE 300 d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Oxymorphone	200
4-Hydroxyphencyclidine 12,500 PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	PHENCYCLIDINE	
PROPOXYPHENE d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	Phencyclidine	25
d-Propoxyphene 300 d-Norpropoxyphene 300 TRAMADOL	4-Hydroxyphencyclidine	12,500
d-Norpropoxyphene 300 TRAMADOL	PROPOXYPHENE	
TRAMADOL	d-Propoxyphene	300
	d-Norpropoxyphene	300
Cis-tramadol 100	TRAMADOL	
	Cis-tramadol	100

COCAINE 150	
Benzoylecgonine	150
Cocaethylene	6,250
Cocaine	400
Ecgonine	12,500
Ecgonine methylester	50,000
COCAINE	
Benzoylecgonine	300
Cocaethylene	12,500
Cocaine	780
Ecgonine	32,000
COTININE	
1-Cotinine	100
S-l-Nicotine	12,500

d,i-O-Desmethyi veniaraxine	25,000
n-Desmethyl-cis-tramadol	195
o-Desmethyl-cis-tramadol	6,250
Phencyclidine	100,000
Procyclidine	100,000
TRICYCLIC ANTIDEPRESSANTS	8
Nortriptyline	1,000
Amitriptyline	1,500
Clomipramine	12,500
Desipramine	200
Doxepin	2,000
Imipramine	400
Maprotiline	2,000
Nordoxepin	1,000
Promazine	1,500
Promethazine	25,000
Trimipramine	3,000

25,000

d I-O-Desmethyl venlafavine

Cross-Reactivity

A study was conducted to determine the cross-reactivity of the test with compounds in either drug-free urine or Amphetamine 300, Amphetamine 500, Amphetamine, Barbiturates, Benzodiazepines 200, Benzodiazepines, Buprenorphine 5, Buprenorphine, Clonazepam, Cocaine 150, Cocaine, Cotinine, Fentanyl, Ketamine, Marijuana 20, Marijuana, Marijuana 150, Methadone, EDDP 100 (Methadone metabolite), EDDP 300 (Methadone metabolite), Methamphetamine 300, Methamphetamine, 500, Methamphetamine, Methylenedioxymethamphetamine, Morphine 300, Opiate 2000, Oxycodone, Phencyclidine, Propoxyphene, Tramadol and Tricyclic Antidepressants positive urine. The following compounds show no cross-reactivity when tested with the SPINREACT Multi-Drug One Step Screen Test Panel (Urine) at a concentration of $100~\mu g/mL$.

Non Cross-Reacting Compounds

4-Acetamidophenol	Diclofenac	Labetalol	Prednisolone
Acetone	Dicyclomine	Lidocaine	Prednisone
Acetophenetidin	Diflunisal	Lindane	d,l-Propanolol
Acetylsalicylic acid	Digoxin	Lithium	Quinacrine
Albumin	4-Dimethylaminoantipyrine	Loperamide	Quinidine
alpha-Naphthaleneacetic Acid	Diphenhydramine	1-Thyroxine	Quinine
Aminopyrine	5,5-Diphenylhydantoin	Meperidine	R(-) Deprenyl
Amoxapine	EMDP	Meprobamate	Riboflavin
Amoxicillin	Erythromycin	Methaqualone	Salicylic acid
Ampicillin	β-Estradiol	Methoxyphenamine	Serotonin
Apomorphine	Estrone-3-sulfate	Methylphenidate	Seroquel
Ascorbic acid	Ethyl alcohol	Metoprolol	Sertraline
Aspartame	Ethyl-p-aminobenzoate	N-Acetylprocainamide	Sodium Chloride
Atropine	Etodolac	Nalidixic acid	Sulfamethazine
Benzilic acid	Famprofazone	Nalorphine	Sulindac
Benzoic acid	Fenoprofen	Naproxen	Tetracycline
Benzydamine	Fluoxetine	Niacinamide	Tetrahydrocortison-3-acetate
Brompheniramine	Furosemide	Nifedipine	Tetrahydrozoline
Caffeine	Gentisic acid	Nimesulide	Theophylline
Cannabidiol	d-Glucose	Norethindrone	Thiamine
Chloral Hydrate	Guaiacol Glyceryl Ether	Noscapine	Thioridazine
Chloramphenicol	Hemoglobin	d,l-Octopamine	Tolbutamide
Chloroquine	Hydralazine	Orphenadrine	Trans-2-phenylcyclopropylamine
Chlorothiazide	Hydrochlorothiazide	Oxalic acid	Trazodone
Chlorpromazine	Hydrocortisone	Oxolinic acid	Triamterene

Chlorprothixene o-Hydroxyhippuric acid Oxymetazoline Trifluoperazine Cholesterol Trimethoprim 3-Hydroxytyramine Papaverine Cimetidine Ibuprofen Pemoline d,l-Tryptophan Clonidine d,l-Tyrosine Iproniazid Penicillin Uric acid Cortisone Isoproterenol Pentazocine Creatinine Isoxsuprine Phenelzine Verapamil Deoxycorticosterone Kanamycin Pheniramine Zomepirac Dextromethorphan Ketoprofen Phenothiazine

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- 4. Baselt RC. <u>Disposition of Toxic Multi-Drugs and Chemicals in Man</u>. 2nd Ed. Biomedical Publ., Davis, CA. 1982; 488
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SVT/Adulterant Color Chart

Abnormal	Abnormal		Oxidants/Pyridinium chlorochromate	NIT	Nitrite
Normal	Normal	S.G.	Specific gravity	GLUT	Glutaraldehyde
		pН	рН	CRE	Creatinine

Index of Symbols

<u>i</u>	Consult instructions for use	Σ	Tests per kit
IVD	For <i>in vitro</i> diagnostic use only	\subseteq	Use by
2°C - 30°C	Store between 2-30°C	LOT	Lot Number

