

Precision Plus™ **Urine Drug Test**

For Forensic Use Only

The Precision Plus Urine Drug Test detects multiple drugs and drug metabolites in human urine at the following cutoff concentrations:

Abbreviation	Drug	Cutoff (ng/ml)
6AM	6-Acetylmorphine	10
AMP	Amphetamine	300
AMP500	Amphetamine	500
AMP1000	Amphetamine	1000
BAR	Barbiturates	300
BAR200	Barbiturates	200
BUP	Buprenorphine	10
BZO	Benzodiazepines	300
BZO200	Benzodiazepines	200
CLO	Clonazepam	300
COC	Cocaine	150
COC300	Cocaine	300
COT	Cotinine	200
EDDP	Methadone Metabolite	300
ETG	Ethyl Glucuronide	500
FEN	Norfentanyl	5
FEN	Norfentanyl	10
FEN	Norfentanyl	20
FEN	Norfentanyl	50
FEN	Norfentanyl	100
GAB1000	Gabapentin	1000
GAB2000	Gabapentin	2000
K2	Synthetic Marijuana	50
K2 25	Synthetic Marijuana	25
K2+	AB-PINACA	10
KET	Ketamine	1000
KRA	Mitragynine	100
MDMA	Ecstasy	500
MET	Methamphetamine	500
MET1000	Methamphetamine	1,000
MTD	Methadone	300
OPI300	Morphine	300
OPI2000	Opiates	2,000
OXY	Oxycodone	100
PCP	Phencyclidine	25
PPX	Propoxyphene	300
TCA	Tricyclic Antidepressants	1000
THC	Marijuana	15
THC	Marijuana	20
THC	Marijuana	50
TRA	Tramadol	100
TRA	Tramadol	200
XYL	Xylazine	100

This test does not distinguish between drugs of abuse and certain medications. It may yield preliminary positive results when prescription tricyclic antidepressants, barbiturates, benzodiazepines, methadone, buprenorphine or opiates are ingested, even at therapeutic doses. There are no uniformly recognized drug levels for these prescription drugs in urine.

PROCEDURE

- Allow the test device, and/or controls to equilibrate to room temperature (15-30°C) prior to testing
 - Do not open the test device pouch until ready to perform the test.

2.

- 1. Remove strip from the sealed pouch or bottle.
- 2. With arrows pointing toward the urine specimen, immerse the test strip vertically in the urine specimen for at least 20 seconds. Do not immerse the strip past the maximum line (MAX). Place the test strip on a non-absorbent flat surface. Read drug test results at 5 minutes. Results remain stable for 60 minutes.

- Remove the dip card from the sealed pouch. Write the donor name or ID on the dip card in the provided space, then remove the cap.
- With the arrows pointing toward the urine specimen, immerse the sample tips vertically in the urine specimen for at least 20 seconds. Replace the cap back onto the dip card and place the dip card on
- Read drug test results at 5 minutes. Results remain stable for 60 minutes.
- Read urine adulteration test results by comparing the color of the reagent pads to the corresponding color blocks on the color chart at 3 to 5 minutes.

Position of adulteration pads may vary based on the drug strip configuration.

Cup:

- 1. Remove cup from the sealed pouch and write the donor name or ID in the provided space.
- Collect urine in the cup.
- Read drug test results at 5 minutes. Results remain stable for 60

Read urine adulteration test results by comparing the color of the reagent pads to the corresponding color blocks on the color chart at 3 to 5 minutes.





RESULT INTERPRETATION

Read results after 5 minutes. Do not read results past 60 minutes.

A red or pink line must appear next to the "C" (control) on all of the test strips. The appearance of a red or pink line next to the "C" on each test strip indicates that the test has worked properly.

Negative Result:

A red or pink line next to the "T1" or "T2" (drug test line) under the drug name indicates a negative result for that drug. If a test line appears next to the "T1" or "T2" for all drugs, the sample is considered negative. Certain lines may appear lighter or thinner than other lines.



Preliminary Positive Result:

If NO red or pink line appears next to the "T1" or "T2" under the drug name, the sample may contain that drug. Send the sample to a laboratory for confirmation testing.

The illustration on the right shows preliminary positive results for AMP and THC, but negative for all other drugs.



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Invalid Result:

A colored line should always appear next to the letter "C" on every test strip. If no control line appears on any of test strips, the result is invalid.

The illustration at right shows no line next to the letter "C" on the first strip (MTD, TCA) and fourth strip (COC, THC). The test results for those two test strips are invalid.

QUALITY CONTROL

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

To ensure proper kit performance, 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. External controls are available from commercial sources. Additional testing may be necessary to comply with the requirements of accrediting organizations and/or local, state, and/or federal regulators.

Quality control testing should be performed with each new lot, with each new shipment, and every thirty days to check storage conditions. External controls can be purchased from the following vendor: Biomedical Diagnostics, 1-631-595-9200, www.kovaintl.com.

PERFORMANCE CHARACTERISTICS

The accuracy of the Precision Plus Urine Drug Test was evaluated in comparison to GC/MS and LC/MS. Drug-free urine samples collected from presumed non-user volunteers were tested with the Precision Plus Urine Drug Test. Of these negative samples, all were correctly identified as negative. 10% of the negative samples were confirmed with GC/MS as drug negative. At least 30 drug positive urine specimens for each drug test were obtained from reference labs. Drug concentrations were confirmed with GC/MS and LC/MS (for TCA). A summary of the accuracy results are shown in the following tables.





Drug Test/				Ra	ange of GC/M	S Data		
Cutoff (ng/ml)	Result	Drug-free	-50% -	-25% C/O -	C/O -	>+25% -	>+50/%	% Agreeme
	Neg	40	<-25% C/O 4	C/O 1	+25% C/O 0	+50% C/O 0	C/O 0	1009
6AM/10	Pos	0	0	Ö	ĭ	4	35	1009
AMP/300	Neg	40	0	0	0	0	0	100%
7000	Pos	0 40	3	0	0	0	52 0	1009 97.79
AMP/500	Neg Pos	0	0	1	2	2	45	1009
AMP/1000	Neg	40	3	3	0	0	0	1009
AIVIF/1000	Pos	0	0	0	3	3	40	1009
BAR/300	Neg Pos	40 0	0	2	5	2	0 36	95.29
DAD/000	Neg	40	1	1	Ö	0	0	95.459
BAR/200	Pos	0	0	2	2	3	42	1009
BUP/10	Neg	40	1	1	0	0	0	95.59
	Pos Neg	0 40	0	<u>2</u> 1	8	0	32 0	93.29
BZO/300	Pos	0	0	3	ĭ	6	34	100
BZO/200	Neg	40	0	1	0	0	0	93.29
220,200	Pos Neg	0 40	2	<u>3</u>	0	<u>2</u> 0	43 0	1009
CLO/300	Pos	0	0	1	0	1	26	97.679
COC/150	Neg	40	0	3	Ö	Ö	0	97.79
COC/ 150	Pos	0	0	1	4	1	53	1009
COC/300	Neg	40	3	2	0	0	0	1009
	Pos Neg	0 40	0	0	0	<u>3</u>	35 0	100° >99.0°
COT/200	Pos	0	0	0	0	0	40	>99.09
EDDP/300	Neg	40	0	1	0	0	0	93.20
	Pos	0 141	0 15	3	5	2 0	33	100° 99.4°
ETG/500	Neg Pos	141	15 0	<u>8</u> 1	5	13	65	99.4
EEN/E	Neg	40	0	0	0	0	0	100
FEN/5	Pos	0	0	0	1	3	66	100
FEN/10	Neg	40	0	0	0	0	0	100
	Pos Neg	100	3	0 2	0	0	22 0	99.06
FEN/20	Pos	0	0	1	3	3	46	100
FEN/50	Neg	40	3	0	0	0	0	>99
LIN/30	Pos	0	0	0	2	0	51	>99
FEN/100	Neg Pos	40 0	5 0	2	2	0	30	97.9 100
0.4.0.00	Neg	40	0	- i	0	0	0	97.62
GAB/1000	Pos	0	0	1	0	0	48	100
GAB/2000	Neg	40	0	0	0	0	0	100
	Pos Neg	0 40	3	0 1	0	0	47 0	100
K2/50	Pos	0	0	2	2	4	22	95.7
K2/25	Neg	40	2	1	0	0	0	93.5
N2/25	Pos	0	0	3	2	3	21	100
K2+/10	Neg Pos	40 0	0	0	0	<u>0</u> 4	0	1009
VET/4000	Neg	40	19	2	0	0	0	96.89
KET/1000	Pos	0	0	2	4	2	35	100
KRA/100	Neg	40	2	0	0	0	0	97.67
	Pos	0 40	0	1 1	0	<u>3</u>	14 0	>99
MDMA/500	Neg Pos	0	0	2	5	1	34	95.5 100
MET/500	Neg	40	1	0	0	0	0	93.2
MET/500	Pos	0	0	3	1	3	51	100
MET/1000	Neg	40	3	3	0	0	0	100
	Pos Neg	0 40	0	<u>0</u> 2	0	<u>3</u>	40 0	100 95.5
MTD/300	Pos	0	0	2	4	0	37	100
OPI/300	Neg	40	0	1	0	0	0	93.2
J. 11000	Pos	0	0	3	4	0	53	100
OPI/2000	Neg Pos	40 0	0	2	4	3	40	93.2
20/0//400	Neg	40	1	0	0	0	0	93.2
OXY/100	Pos	0	0	3	7	1	33	100
PCP/25	Neg	40	0	3	0	0	0	97.7
	Pos	0 40	0	<u>1</u> 1	3 0	<u>8</u> 0	33	100
PPX/300	Neg Pos	0	0	2	5	2	33	95.3 100
TC \/1000	Neg	40	0	2	0	0	0	95.5
ГСА/1000	Pos	0	0	2	5	7	28	100
THC/15	Neg	40	0	<u>4</u> 0	1	0	0 53	100
	Pos Neg	0 40	22	6	2	0	53	98.25° 98.55°
THC/20	Pos	0	0	1	1	5	46	96.3
THC/50	Neg	40	1	2	0	0	0	97.7
1110/30	Pos	0	0	1	4	7	44	100
TRA/100	Neg	40 0	8	4 0	0	<u>0</u> 4	62	>99°
	Pos Neg	40	5	6	1	0	62 0	1009
TRA/200	Pos	0	0	0	4	2	8	93.339
XYL/100	Neg	40	2	0	1	0	0	1009
	Pos	0	0	0	1	0	8	909

B. ANALYTICAL SENSITIVITY/PRECISION

Drug-free urine and urine with drug concentrations at +/-50% cutoff and +/-25% cutoff were tested by 9 operators at 3 physician office laboratories (POL) over 20 non-consecutive days. Each level of solution was tested in 10 replicates randomly by each operator at each POL site. Results showed over 99% agreement at +/-50% cutoff levels with the Precision Plus Urine Drug Test.

C. ANALYTICAL SPECIFICITY

The following compounds are detected positive in urine by the Precision Plus Urine Drug Test.

Concentrations are given in ng/ml; percent cross-reactivity is shown in parentheses.					
Compound 6-AM	Conc. (%)	Compound	Conc. (%)		
6-Acetylmorphine Diacetylmorphine (heroin) Oxycodone	10 (100%) 300 (3%) >100,000 (<0.1%)	Morphine Codeine Oxymorphone	>100,000 (<0.1%) >100,000 (<0.1%) >100,000 (<0.1%)		
AMP 300 D-Amphetamine L-Amphetamine	300 (100%) 27,500 (1.1%)	MDA Phentermine	1,000 (30%) 3,000 (10%)		
AMP500 D-Amphetamine L-Amphetamine AMP1000	500 (100%) 50,000 (1%)	MDA Phentermine	8,000 (6.5%) 45,000 (1.1%)		
D-Amphetamine L-Amphetamine BAR	1,000 (100%) 100,000 (1%)	MDA Phentermine	15,000 (6.7%) 100,000 (1.0%)		
Secobarbital Amobarbital Aprobarbital Butabarbital	300 (100%) 2,500 (12%) 500 (60%) 100 (300%)	Butalbital Cyclopentobarbital Phenobarbital Pentobarbital	300 (100%) 500 (60%) 300 (100%) 250 (120%)		
BAR200 Secobarbital Amobarbital Aprobarbital Butabarbital	200 (100%) 1,660 (12%) 330 (66.7%) 60 (333%)	Butalbital Cyclopentobarbital Phenobarbital	200 (100%) 330 (66.7%) 200 (100%)		
BUP Buprenorphine BZO	10 (100%)				
Oxazepam Alprazolam Bromazepam Clobazam Clotazepate Desalkylflurazepam Diazepam Flunitrazepam	300 (100%) 200 (150%) 1,000 (30%) 200 (150%) 750 (40%) 1,200 (25%) 1,000 (30%) 250 (120%)	α-Hydroxyalprazolam Lorazepam Lorazepam-glucuronide Nitrazepam Norchlordiazepoxide Nordazepam Temazepam Triazolam	1,900 (15.8%) 3,900 (7.7%) 5,000 (6%) 250 (120%) 500 (60%) 390 (76.9%) 150 (200%) 2,500 (12%)		
BZO200 Oxazepam Alprazolam Bromazepam Clobazam Clorazepate Desaikylflurazepam Diazepam Flunitrazepam	200 (100%) 130 (153%) 650 (30.7%) 130 (153.8%) 500 (40%) 800 (25%) 650 (30.7%) 160 (125%)	a-Hydroxyalprazolam Lorazepam Lorazepam-glucuronide Nitrazepam Norchlordiazepoxide Nordazepam Temazepam Triazolam	1,300 (15.3%) 2,600 (7.7%) 3,500 (5.7%) 160 (125%) 330 (60.6%) 260 (76.9%) 100 (200%) 1,650 (12.1%)		
CLO 7-Amino Clonazepam Meclonazepam Alprazolam Clobazam Desalkyfflurazepam Flunitrazepam Lorazepam Nitrazepam Nordiazepam Triazolam	300 (100%) >100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3%) 100,000 (<0.3%) 100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3) >100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3%)	Clonazepam Oxazepam Bromazepam Clorazepate dipotassium Diazepam a-Hydroxyalprazolam Lorazepam glucuronide Norchlordiazepoxide Temazepam	75,000 (0.4%) >100,000 (<0.3%) >100,000 (<0.3) >100,000 (<0.3) >100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3%) >100,000 (<0.3%)		
COC Benzoylecgonine Cocaethylene COC300	150 (100%) 50,000 (0.3%)	Cocaine Ecgonine	5,000 (3%) 50,000 (0.3%)		
Benzoylecgonine Cocaethylene COT	300 (100%) 100,000 (0.3%)	Cocaine Ecgonine	10,000 (3%) 100,000 (0.3%)		
(-)-Cotinine Trans-3'-hydroxycotinine EDDP	200 (100%) 5,000 (4%)	(R,S)-Norcotine S(-)-Nicotine	100,000 (0.2%) >100,000 (<0.2%)		
EDDP ETG Ethyl glucuronide	300 (100%) 500 (100%)				
FENS Norfentanyl Butyryl norfentanyl (+/-)-trans-3-methyl Norfentanyl Acetyl norfentanyl oxalate N-benzyl para-fluoro Norfentanyl Fentanyl Acetyl fentanyl Carfentanil Oxalate Para-Fluorobutyryl fentanyl Furanyl fentanyl HCl Methoxyacetyl fentanyl HCl Para-Fluorofentanyl 9-Hydroxyrisperidone FEN10	50(100%) 5(100%) 50(10%) 50(10%) 50(10%) 50(10%) 50(1.43%) 100,000(0.005%) 100,000(-0.005%) >10,000(0.05%) >10,000(0.05%) >10,000(0.05%) >10,000(0.05%) >10,000(0.05%) >10,000(0.05%) >10,000(0.05%) 10,000(0.05%)	Cyclopropyl norfentanyl Furanyl norfentanyl (+:)-cis-3-methyl Norfentanyl Isobutyryl norfentanyl N-benzyl Furanyl norfentanyl Alfentanil HCl Butynyl fentanyl Cyclopropyl fentanyl HCl Acryl fentanyl HCl Ocfentanil Valenyyl fentanyl HCl 4-Fluoro-isobutyryl fentanyl Risperidone Fentanyl	30(16.67%) 45(11.11%) 60(8.33%) 3000(0.16%) 100.000(0.05%) >10.000(0.05%) >10.000(0.05%) >10.000(0.05%) >10.000(0.05%) >10.000(0.05%) >10.000(0.05%) >10.000(0.05%) >10.000(0.05%)		
Norfentanyl	10(100%)	rentanyl	500(2%)		

Compound	Conc. (%)	Compound	Conc. (%)
FEN20	00 (4000()	F	4 000 (00()
Norfentanyl(calibrator)	20 (100%)	Fentanyl(parent drug)	1,000 (2%)
Alfentanil	>100,000(>0.02%)	Sufentanil	>10,000(>0.2%)
Carfentanil FEN 50	>10,000(>0.2%)		
Norfentanyl	50 (100%)	Fentanyl	600 (8.33%)
6-Hydroxybuspirone	3,500 (1.43%)	Cetirizine	10,000 (0.5%)
9-Hydroxyrisperidone	50,000 (0.1%)		, ()
FEN 100			
Norfentanyl	100 (100%)	Fentanyl	750 (13.3%)
GAB 1000			
Gabapentin	1000(100%)	Pregabalin	>100,000(<1%)
Vigabatrin GAB 2000	>100,000(<1%)		
Gabapentin	2000 (100%)	Pregabalin	>100,000(<2%)
Vigabatrin	>100,000(<2%)	9	,
K2 50	,		
JWH-073 N-Butanoic acid metabolite	50 (100%)	JWH-018 4N-(4-Hydroxypentyl)	750 (6%)
JWH-018 5-Pentanoic acid metabolite	50 (4000()	metabolite	4500 (0.00()
	50 (100%)	JWH-018 5-Hydroxypentyl metabolite	1500 (3.3%)
K2 25		metabolite	
JWH-018 5- Pentanoic acid	25 (100%)	JWH-018 4N-(4-Hydroxypentyl)	2000 (1%)
metabolite	,	metabolite	,
JWH-073 N- Butanoic acid	40 (62%)	JWH-018 5-Hydroxypentyl	1250 (2%)
metabolite		metabolite	
K2+ 10	40 (4000()	AD DINACA N. (4 buttones at 1)	40 (4000/)
AB-PINACA pentanoic acid metabolite	10 (100%)	AB-PINACA N-(4-hydroxypentyl)	10 (100%)
ADB-PINACA N-(4-hydroxypentyl) metabolite	15 (66 7%)	metabolite ADR PINACA N (5 bydroxypentyl)	20 (50%)
5-fluoro AB-PINACA N-(4-	15 (66.7%)	ADB-PINACA N-(5-hydroxypentyl) metabolite	20 (50%)
hydroxypentyl) metabolite	20 (50%)	AB-PINACA N-(5-hydroxypentyl)	30 (33.3%)
ADB-PINACA pentanoic acid	20 (30 %)	metabolite	30 (33.370)
metabolite	20 (50%)	AB-PINACA	100 (10%)
5-fluoro AB-PINACA	20 (30 %)	5-fluoro ADB-PINACA	250 (40%)
AB-FUBINACA	50 (20%)	APINACA(AKB-48)	>10,000 (<0.1%)
5-chloro AB-PINACA	150 (6.67%)	CUMPY-THPINACA	>100,000 (<0.01%)
APINACA(AKB-48) 5-Hydroxypentyl	1,000 (1%)	AB-CHMINACA metabolite M2	>100,000 (<0.01%)
metabolite	>10,000 (<0.1%)	5-fluoro ADB(5-fluoro MDMB-PINACA)	>100,000 (<0.01%)
5-fluoro AEB	,,	MMB-FUBINACA	,
PX 1(5-fluoro APP-PICA)	>100,000 (<0.01%)	5-fluoro MN-18	>100,000 (<0.01%)
PX 2(5-fluoro APP-PINACA)	>100,000 (<0.01%)	5-fluoro PB-22 3-carboxyindole	>100,000 (<0.01%)
4-cyano CUMYL-BUTINACA	>100,000 (<0.01%)	metabolite	>100,000 (<0.01%)
CUMYL-PICA	>100,000 (<0.01%)	AM2201 N-(4-hydroxypentyl) metabolite	
MN-18	>100,000 (<0.01%)		>100,000 (<0.01%)
BB-22 3-carboxyindole metabolite	>100,000 (<0.01%)		
	>100,000 (<0.01%)		
KET 1000			
Ketamine	1000(100%)	Dehydronorketamine(100000ng/ml)	>10000(<10%)
(±)-Norketamine	5000(20%)		
KRA 100	100 (100%)	Olemenia	EO 000 (0 000()
Mitragynine 7-Hydroxymitragynine	100 (100%) 125 (80%)	Olanzapine	50,000 (0.02%)
MDMA	120 (0070)		
(+/-)-MDMA	500 (100%)	(+/-)-MDEA	500 (100%)
(+/-)-MDA	3,900 (12.8%)		
MET			
D-Methamphetamine	500 (100%)	MDEA	30,000 (1.7%)
D-Amphetamine L-Amphetamine	50,000 (1%) 50,000 (1%)	MDMA Mephentermine	3,500 (14.3%) 75,000 (0.7%)
1R,2S(-)-Ephedrine	100,000 (0.5%)	Wephentermine	73,000 (0.770)
MET 1000	, (,		
D-Methamphetamine	1,000 (100%)	1R,2S(-)-Ephedrine	>100,000 (<0.5%)
L-Methamphetamine	30,000 (3.3%)	MDEA	60,000 (1.7%)
D-Amphetamine	100,000 (1%)	MDMA Manhantarmina	8,000 (12.5%)
L-Amphetamine	100,000 (1%)	Mephentermine	100,000 (1%)
MTD Methadone	300 (100%)		
OPI 300	500 (100%)		
Morphine	300 (100%)	Levorphanol	50,000 (0.6%)
Codeine	100 (300%)	Morphine 3-glucuronide	400 (75%)
Ethylmorphine	100 (300%)	Norcodeine	6,000 (1.9%)
Heroin Hydrocodone	8,000 (37.5%) 1,250 (24%)	Oxycodone Thebaine	75,000 (0.4%)
Hydrocodone Hydromorphone	1,250 (24%) 2,500 (12%)	HEDAINE	90,000 (0.3%)
OPI 2000	2,000 (1270)		
Morphine	2,000 (100%)	Hydromorphone	5,000 (40%)
Codeine	1,800 (111.1%)	Morphine-3-glucuronide	2,600 (76.9%)
Ethylmorphine	1,500 (133.3%)	Oxycodone	70,000 (2.9%)
Heroin	11,000 (18.2%)	Thebaine	95,000 (2.1%)
Hydrocodone OXY	5,000 (40%)		
Oxycodone	100 (100%)	Hydrocodone	5,000 (2%)
Codeine	50,000 (0.2%)	Hydromorphone	25,000 (2.4%)
Ethylmorphine	50,000 (0.2%)	Oxymorphone	12,500 (0.8%)
PCP			
Phencyclidine	25 (100%)	4-Hydroxy-PCP	1,500 (1.7%)
PPX	200 (4000/)	Namanananahana	200 (400%)
Propoxyphene	300 (100%)	Norpropoxyphene	300 (100%)
TCA Nortriptyline	1,000 (100%)	Dovenine	1 000 (100%)
Nortriptyline Amitriptyline	4,000 (100%)	Doxepine Imipramine	1,000 (100%) 1,000 (100%)
Clomipramine	2,000 (50%)	Promethazine	1,000 (100%)
Desipramine	500 (200%)	Trimipramine	5,000 (20%)

Compound	Conc. (%)	Compound	Conc. (%)
THC 15		•	
11-nor-∆9-THC-9-COOH	15 (100%)	(-)-∆8-THC	>100,000 (<0.015%)
(+/-)-11-Hydroxy-∆9-THC	8,500 (0.18%)	(-)-∆9-THC	25,000 (0.06%)
Cannabinol	>100,000(<0.015%)	Cannabidiol	>100,000(<0.015%)
THC 20			
11-nor-∆9-THC-9-COOH	20 (100%)	Δ8-THC	20,000 (0.3%)
(+/-)-11-Hydroxy-∆9-THC	10,000 (0.2%)	Δ9-THC	20,000 (0.3%)
Cannabinol	>100,000(<0.1%)	Cannabidiol	>100,000(<0.1%)
THC 50	FO (4000()	() +0 THO	00 000 (0 00/)
11-nor-Δ9-THC-9-COOH	50 (100%)	(-)-∆8-THC	20,000 (0.3%)
(+/-)-11-Hydroxy-∆9-THC	5,000 (1%)	(-)-Δ9-THC	20,000 (0.3%)
TRA			
Tramadol	100 (100%)	N-Desmethyl-cis-tramadol	700 (14.28%)
O-Desmethyl-cis-tramadol	9,000 (1.11%)		
TRA 200			
cis-Tramadol	200 (100%)	N-Desmethyl-cis-Tramadol	800 (25%)
O-Desmethyl-cis-Tramadol	15,000 (1.33%)	O-Desmethylvenlafaxine	>10,000 (<2%)
Venlafaxine	>100,000 (<0.2%)	-	
XYL 100			
4-hydroxy Xylazine	100(100%)	Xylazine	500(20%)
4-hydroxy Xylazine O-Glucuronide	250(40%)	Clonidine	>100,000(<0.1%)

D. INTERFERENCE
The following compounds were evaluated for potential positive or negative interference with the Precision Plus Urine Drug Test. All compounds were dissolved in drug control solutions 50% below and 50% above their respective cutoff concentrations and tested with the Precision Plus Urine Drug Test. An unaltered sample was used as control. No interference was found for following compounds at a concentration of 100 µg/ml when tested with the Precision Plus Urine Drug Test:

Acetaminophen	4-Dimethylaminoantipyrine	Nicotine
Acetone	Diphenhydramine	(+/-)-Norephedrine
Albumin	Dopamine	Oxalic acid
Ampicillin	(+/-)-Isoproterenol	Penicillin-G
Ascorbic acid	1R,2S(+)-Ephedrine	Pheniramine
Aspartame	Erythromycin	Phenothiazine
Aspirin	Ethanol	L-Phenylephrine
Atropine	Furosemide	B-Phenylethylamine
Benzocaine	Glucose	Procaine
Bilirubin	Guaiacol glyceryl ether	Quinidine
Caffeine	Hemoglobin	Ranitidine
Chloroquine	Ibuprofen	Riboflavin
(+)-Chlorpheniramine	Levorphanol	Sertraline
(+/-)-Chlorpheniramine	Lidocaine	Sodium chloride
Creatine	(1R,2S)-(-)-n-Methylephedrine	Sulindac
Dexbrompheniramine	(+)-Naproxen	Theophylline
Dextromethorphan	Niacinamide	Tyramine
Dimenhydrinate		

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