

Unrelated Compounds, Prescription and Over-the-Counter Medications

The following compounds were tested for reactivity to the PROFILE[®]-V MEDTOXScan[®] Drugs of Abuse Test System. Listed compounds were dissolved in appropriate solvents and then added to drug-free urine for testing. Unless otherwise noted by a drug name abbreviation such as "AMP" or "BAR" etc., all of the listed compounds were negative in each of the tests at 100 µg/mL or the highest level tested. If a drug name is followed by an abbreviation such as "AMP" or "BAR" etc., check the "Related Compounds and Cross Reactants" listing for the drug in question under the appropriate heading (AMP, BAR, etc.) to find its level of cross-reactivity to that test.

Acetaminophen	Ephedrine-MAMP	Nortriptyline-TCA
Acetylsalicylic Acid	Erythromycin	Ofloxacin
Allobarbital-BAR	Ethanol	Olanzapine
Alprazolam-BZO	Ethylmorphine-OPI, OXY	Orphenadrine
Alprazolam, 1-Hydroxy-BZO	Fenfluramine-MAMP, AMP	Oxaprosin
7-Aminoclonazepam	Fenpropfen	Oxazepam glucuronide-BZO
7-Aminoflunitrazepam	Fentanyl (Synthetic opiate)	Oxazepam-BZO
Amitriptyline-TCA	Flunitrazepam-BZO	Oxycodone-OXY
Amobarbital-BAR	Fluoxetine (Prozac)	Oxymetazoline
Amoxapine	Flurazepam	Oxymorphone-OXY
Amoxicillin	Fluvoxamine	Penicillin G
d-Amphetamine-AMP	Furosemide	Penicillin V
l- Amphetamine-AMP	Glutethimide	Pentazocine
Ampicillin	Haloperidol	Pentobarbital-BAR
Apomorphine	Hexobarbital	Perphenazine-TCA
l-Ascorbic Acid	Hydralazine	Phencyclidine-PCP
Atomoxetine	Hydrochlorothiazide	Phendimetrazine
Atropine Sulfate	Hydrocodone-OPI, OXY	Phenethylamine-MAMP
Barbital-BAR	Hydrocortisone	Pheniramine
Barbituric Acid	Hydromorphone-OPI, OXY	Phenmetrazine
Benzocaine (ethyl-4-aminobenzoate)	Hydroxybupropion	Phenobarbital-BAR
Benzoic Acid	l-11-Hydroxy- Δ^9 -THC	Phenothiazine
Benzoylcegonine-COC	4-Hydroxyphencyclidine-PCP	Phentermine-AMP
Benzphetamine	Hydroxyzine	Phenylbutazone
Benztropine	Ibuprofen	Phenylephrine-MAMP
Brompheniramine	Imipramine-TCA	Phenylpropanolamine
Buprenorphine-BUP	Ketamine	Piroxicam
Bupropion	Ketoprofen	Prednisone
Bulbarbital-BAR	Levorphanol-OPI	Procainamide
Butalbital-BAR	Lidocaine	Procaine-MAMP
Caffeine	Lithium carbonate	Prochlorperazine-TCA
Cannabidiol	Loperamide	Promazine-TCA
Cannabinol	Lorazepam glucuronide-BZO	Promethazine
Carbamazepine	Lorazepam-BZO	Propoxyphene-PPX
Carbamazepine- 10,11 epoxide	Loxapine	Propranolol
Carisoprodol (Meprobamate)	Lysergic Acid	Protriptyline-TCA
Cephalexin	Lysergic Acid Diethylamide (LSD)	d-Pseudoephedrine
Chlordiazepoxide	Maprotiline-TCA	Pyrimidine
Chlorothiazide	MDA-AMP	Quetiapine (Seroquel)-TCA
Chlorpheniramine	MDE (MDEA)-MAMP	Quinidine
Chlorpromazine	MDMA-MAMP	Ranitidine
Clobazam-BZO	Meperidine	Riboflavin
Clomipramine	Mephobarbital	Salicylic Acid
Clonazepam-BZO	Mepivacaine	Secobarbital-BAR
Clorazepate-BZO	Mesoridazine	Sertraline (Zoloft)
Clozapine-TCA	Methadone-MTD	Sildenafil (Viagra)
Cocaine-COC	d-Methamphetamine-MAMP	Sulfamethazine
Codeine-OPI, OXY	l-Methamphetamine-MAMP	Sulindac
Cotinine	Methaqualone	Talbutal-BAR
Cyclobenzaprine-TCA	Methcathinone	Temazepam glucuronide-BZO
Cyclopentobarbital-BAR	Methocarbamol	Temazepam-BZO
Desalkylflurazepam-BZO	Methylphenidate	Tetracycline
Desipramine-TCA	Metoprolol	Δ^8 -Tetrahydrocannabinol \square
Desmethylchlordiazepoxide-BZO	Midazolam-BZO	Δ^9 -Tetrahydrocannabinol-THC
Desmethylflunitrazepam-BZO	Mirtazapine	Tetrahydrozoline
Desmethylvenlafaxine	6-Monoacetylmorphine-OPI	Thebaine-OPI
Dextromethorphan	Morphine-OPI, OXY	Theophylline
Diacetylmorphine-OPI	Morphine 3- β -D-Glucuronide-OPI	Thiopental
Diazepam-BZO	Morphine 6- β -D-Glucuronide-OPI, OXY	Thioridazine
Diclofenac	Nalorphine-OPI	Thiothixene
Diethylpropion	Naloxone-OXY	Toimetin (Tolectin)
Digoxin	Naltrexone-OXY	Trazodone
Dihydrocodeine-OPI, OXY	Naproxen	Triamterene
Diphenhydramine	Nicotine	Triazolam, 1-hydroxy-BZO
Diphenhydantoin (Phenytoin)-BAR	Nitrazepam-BZO	Triazolam-BZO
Domperidone	11-Nor-9-carboxy- Δ^9 -THC -THC	Trifluoperazine
Dopamine	Norclomipramine	Trimethoprim
Doxepin-TCA	Norcodeine-OPI, OXY	Trimipramine-TCA
Doxylamine	Nordiazepam-BZO	Tripelennamine
Ecgonine	Nordoxepin-TCA	Tryptophan
Ecgonine Methyl Ester	Norlysergic Acid	Tyramine
EDDP-(Primary metabolite of methadone)	Normeperidine	Valproic Acid
Efavirenz (Sustiva)	Norpropoxyphene-PPX	Venlafaxine
EMDP-(Secondary metabolite of methadone)	l-Norpseudoephedrine	Verapamil

Related Compounds and Cross Reactants

The following metabolites and reacting compounds were evaluated for the specified test on the PROFILE[®]-V MEDTOXScan[®] Drugs of Abuse Test System. Reference standards for the various metabolites and compounds were prepared in negative urine samples. Results are expressed as the minimum concentration expected to produce a positive result in the indicated assay. Compounds that reacted with the test are listed first, and related compounds that did not react with the highest concentration tested are listed second as Negative at 100,000 ng/mL. "% Cross-Reactive" values were calculated from the cut-off level for the calibrator used for each test (approximate 50% positive rate) divided by the lowest reported level found to react in the same test (greater than 66% positive rate).

<u>Amphetamines (AMP)</u> (d-Amphetamine) 500 ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
I-Amphetamine	Positive at 50,000 ng/mL	1%
Fenfluramine	Positive at 10,000 ng/mL	5%
MDA	Positive at 250 ng/mL	200%
Phentermine	Positive at 7,500 ng/mL	7%
Ephedrine	Negative at 100,000 ng/mL	None Detected
MDE (MDEA)	Negative at 100,000 ng/mL	None Detected
MDMA	Negative at 100,000 ng/mL	None Detected
l-Methamphetamine	Negative at 100,000 ng/mL	None Detected
d-Methamphetamine	Negative at 100,000 ng/mL	None Detected
Phenethylamine	Negative at 100,000 ng/mL	None Detected
Pseudoephedrine	Negative at 100,000 ng/mL	None Detected
Tyramine	Negative at 100,000 ng/mL	None Detected
<u>Barbiturate (BAR)</u> (Butalbital) 200 ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Allobarbitol	Positive at 250 ng/mL	80%
Amobarbital	Positive at 800 ng/mL	25%
Barbital	Positive at 2,500 ng/mL	8%
Butabarbital	Positive at 400 ng/mL	50%
Cyclopentobarbital	Positive at 250 ng/mL	80%
Diphenylhydantoin (Phenytoin)	Positive at 2,000 ng/mL	10%
Pentobarbital	Positive at 300 ng/mL	67%
Phenobarbital	Positive at 1,250 ng/mL	16%
Secobarbital	Positive at 50 ng/mL	400%
Talbutal	Positive at 50 ng/mL	400%
Barbituric Acid	Negative at 100,000 ng/mL	None Detected
Glutethimide	Negative at 100,000 ng/mL	None Detected
Hexobarbital	Negative at 100,000 ng/mL	None Detected
Mephobarbital	Negative at 100,000 ng/mL	None Detected
Thiopental	Negative at 100,000 ng/mL	None Detected
<u>Benzodiazepine (BZO)</u> (Nordiazepam) 150ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Alprazolam	Positive at 100 ng/mL	150%
Alprazolam, 1-OH	Positive at 25,000 ng/mL	<1%
Clobazam	Positive at 75 ng/mL	200%
Clonazepam	Positive at 900 ng/mL	17%
Clorazepate	Positive at 200 ng/mL	75%
Desalkylflurazepam	Positive at 600 ng/mL	25%
Desmethylclordiazepoxide	Positive at 1,000 ng/mL	15%
Desmethylflunitrazepam	Positive at 75 ng/mL	200%
Diazepam	Positive at 75 ng/mL	200%
Flunitrazepam	Positive at 50 ng/mL	300%
Lorazepam	Positive at 1,200 ng/mL	13%
Lorazepam glucuronide	Positive at 1,000 ng/mL	15%
Midazolam	Positive at 5,000 ng/mL	3%
Nitrazepam	Positive at 50 ng/mL	300%
Oxazepam	Positive at 200 ng/mL	75%
Oxazepam glucuronide	Positive at 2,500 ng/mL	6%
Temazepam	Positive at 90 ng/mL	167%
Temazepam glucuronide	Positive at 750 ng/mL	20%
Triazolam	Positive at 750 ng/mL	20%
Triazolam, 1-OH	Positive at 10,000 ng/mL	2%
7-Aminoclonazepam	Negative at 100,000 ng/mL	None Detected
7-Aminoflunitrazepam	Negative at 100,000 ng/mL	None Detected
Chlordiazepoxide	Negative at 100,000 ng/mL	None Detected
Flurazepam	Negative at 100,000 ng/mL	None Detected
<u>Buprenorphine (BUP)</u> (Buprenorphine) 10ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Buprenorphine-glucuronide	Positive at 20 ng/mL	50%
Norbuprenorphine	Positive at 250 ng/mL	4%
Norbuprenorphine-glucuronide	Positive at 500 ng/mL	2%
Codeine	Negative at 100,000 ng/mL	None Detected
Diacetylmorphine	Negative at 100,000 ng/mL	None Detected
Hydrocodone	Negative at 100,000 ng/mL	None Detected
Hydromorphone	Negative at 100,000 ng/mL	None Detected
Levorphanol	Negative at 100,000 ng/mL	None Detected
6-Monoacetylmorphine	Negative at 100,000 ng/mL	None Detected
Morphine	Negative at 100,000 ng/mL	None Detected
Naloxone	Negative at 100,000 ng/mL	None Detected
Naltrexone	Negative at 100,000 ng/mL	None Detected
Oxycodone	Negative at 100,000 ng/mL	None Detected
Oxymorphone	Negative at 100,000 ng/mL	None Detected
Thebaine	Negative at 100,000 ng/mL	None Detected
<u>Cocaine (COC)</u> (Benzoylcegonine) 150 ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Cocaine	Positive at 250 ng/mL	60%
Ecgonine	Negative at 100,000 ng/mL	None Detected
Ecgonine Methyl Ester	Negative at 100,000 ng/mL	None Detected

<u>Methamphetamine (mAMP)</u> (d-Methamphetamine) 500 ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Ephedrine	Positive at 2,500 ng/mL	20%
Fenfluramine	Positive at 50,000 ng/mL	1%
MDE (MDEA)	Positive at 7,500 ng/mL	7%
MDMA	Positive at 1,150 ng/mL	43%
l-Methamphetamine	Positive at 7,500 ng/mL	7%
Phenethylamine	Positive at 2,500 ng/mL	20%
Phenylephrine	Positive at 25,000 ng/mL	2%
Procaine	Positive at 7,500 ng/mL	7%
d-Amphetamine	Negative at 100,000 ng/mL	None Detected
l-Amphetamine	Negative at 100,000 ng/mL	None Detected
MDA	Negative at 100,000 ng/mL	None Detected
Phentermine	Negative at 100,000 ng/mL	None Detected
Phenmetrazine	Negative at 100,000 ng/mL	None Detected
Pseudoephedrine	Negative at 100,000 ng/mL	None Detected
Tyramine	Negative at 100,000 ng/mL	None Detected
<u>Methadone (MTD)</u> (Methadone) 200 ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Buprenorphine (MTD Replacement)	Negative at 100,000 ng/mL	None Detected
EDDP (Primary metabolite)	Negative at 100,000 ng/mL	None Detected
EMDP (Secondary metabolite)	Negative at 100,000 ng/mL	None Detected
<u>Opiates-(OPI)</u> (Morphine) 100ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Codeine	Positive at 50 ng/mL	200%
Diacetylmorphine	Positive at 50 ng/mL	200%
Dihydrocodeine	Positive at 75 ng/mL	133%
Ethylmorphine	Positive at 50 ng/mL	200%
Hydrocodone	Positive at 400 ng/mL	25%
Hydromorphone	Positive at 800 ng/mL	13%
Levorphanol	Positive at 2,500 ng/mL	4%
6-Monoacetylmorphine	Positive at 350 ng/mL	29%
Morphine 3-β-D-Glucuronide	Positive at 75 ng/mL	133%
Morphine 6-β-D-Glucuronide	Positive at 500 ng/mL	20%
Nalorphine	Positive at 50,000 ng/mL	<1%
Norcodeine	Positive at 10,000 ng/mL	1%
Thebaine	Positive at 25,000 ng/mL	<1%
Apomorphine	Negative at 100,000 ng/mL	None Detected
Naloxone	Negative at 100,000 ng/mL	None Detected
Naltrexone	Negative at 100,000 ng/mL	None Detected
Oxycodone	Negative at 100,000 ng/mL	None Detected
Oxymorphone	Negative at 100,000 ng/mL	None Detected
<u>Opiates-(OPI2)</u> (Morphine) 2000ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Codeine	Positive at 900 ng/mL	222%
Diacetylmorphine	Positive at 2500 ng/mL	80%
Dihydrocodeine	Positive at 3800 ng/mL	53%
Ethylmorphine	Positive at 600 ng/mL	333%
Hydrocodone	Positive at 1400 ng/mL	143%
Hydromorphone	Positive at 1900 ng/mL	105%
Levorphanol	Positive at 5000 ng/mL	40%
6-Monoacetylmorphine	Positive at 3800 ng/mL	53%
Morphine 3-β-D-Glucuronide	Positive at 5000 ng/mL	40%
Morphine 6-β-D-Glucuronide	Positive at 6000 ng/mL	33%
Norcodeine	Positive at 40,000 ng/mL	5%
Thebaine	Positive at 2500 ng/mL	80%
Apomorphine	Negative at 100,000 ng/mL	None Detected
Nalorphine	Negative at 100,000 ng/mL	None Detected
Naloxone	Negative at 100,000 ng/mL	None Detected
Naltrexone	Negative at 100,000 ng/mL	None Detected
Oxycodone	Negative at 100,000 ng/mL	None Detected
Oxymorphone	Negative at 100,000 ng/mL	None Detected
<u>Oxycodone (OXY)</u> (Oxycodone) 100 ng/mL	<u>Result</u>	<u>% Cross-Reactive</u>
Codeine	Positive at 5000 ng/mL	2%
Dihydrocodeine	Positive at 25,000 ng/mL	<1%
Ethylmorphine	Positive at 7,500 ng/mL	1%
Hydrocodone	Positive at 50,000 ng/mL	<1%
Hydromorphone	Positive at 50,000 ng/mL	<1%
Morphine	Positive at 25,000 ng/mL	<1%
Morphine 6-β-D-Glucuronide	Positive at 100,000 ng/mL	<1%
Naloxone	Positive at 25,000 ng/mL	<1%
Naltrexone	Positive at 50,000 ng/mL	<1%
Norcodeine	Positive at 100,000 ng/mL	<1%
Oxymorphone	Positive at 250 ng/mL	40%
Apomorphine	Negative at 100,000 ng/mL	None Detected
Diacetylmorphine	Negative at 100,000 ng/mL	None Detected
Levorphanol	Negative at 100,000 ng/mL	None Detected
6-Monoacetylmorphine	Negative at 100,000 ng/mL	None Detected
Morphine 3-β-D-Glucuronide	Negative at 100,000 ng/mL	None Detected
Nalorphine	Negative at 100,000 ng/mL	None Detected
Thebaine	Negative at 100,000 ng/mL	None Detected

