

URINE METHADONE

Specificity⁶

Non Interfering Substances

Each of the following compounds when added to urine containing methadone at $\pm 25\%$ concentration of the cutoff do not yield a false response relative to the 300 ng/mL cutoff:

Compound	Concentration
Acetone	1.0 g/dL
Ascorbic Acid	1.5 g/dL
Bilirubin	2.0 mg/dL
Creatinine	0.5 g/dL
Ethanol	1.0 g/dL
Gamma Globulin	0.5 g/dL
Glucose	2.0 g/dL
Hemoglobin	115 mg/dL
Human Serum Albumin	0.5 g/dL
Oxalic Acid	0.1 g/dL
Riboflavin	7.5 mg/dL
Sodium Chloride	6.0 g/dL
Urea	6.0 g/Dl

Each of the following compounds was added to drug free urine and gave negative METH results: ‡

Compound	Concentration
Acetaminophen	1000 $\mu\text{g/mL}$
L- α -Acetylmethadol (LAAM)	5 $\mu\text{g/mL}$
N-Acetylprocainamide (NAPA)	400 $\mu\text{g/mL}$
Acetylsalicylic Acid	1000 $\mu\text{g/mL}$
Amitriptyline	50 $\mu\text{g/mL}$
D-Amphetamine	1000 $\mu\text{g/mL}$
Benzoyllecgonine	1000 $\mu\text{g/mL}$
Buprenorphine	100 $\mu\text{g/mL}$
Caffeine	1000 $\mu\text{g/mL}$
Cimetidine	1000 $\mu\text{g/mL}$
Clomipramine	2.5 $\mu\text{g/mL}$
Clonidine	1000 $\mu\text{g/mL}$

Codeine	500 µg/mL
Cotinine	100 µg/mL
Cyclobenzaprine	28 µg/mL
Desipramine	800 µg/mL
Diphenhydramine	500 µg/mL
Doxepin	10 µg/mL
Doxylamine	200 µg/mL
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	1000 µg/mL
Fluoxetine	500 µg/mL
Glutethimid	500 µg/mL
Ibuprofen	1000 µg/mL
Ketamine	100 µg/mL
Ketorolac Tromethamine	1000 µg/mL
Lormetazepam	1 µg/mL
LSD	10 ng/mL
Meperidine	500 µg/mL
d-Methamphetamine	2 µg/mL
L-α-Methadol	> 2 µg/mL
Methaqualone	1500 µg/mL
Morphine	1000 µg/mL
Naproxen	1000 µg/mL
Nortriptyline	750 µg/mL
Oxazepam	300 µg/mL
Phencyclidine	1000 µg/mL
Phenytoin	1000 µg/mL
Promethazine	75 µg/mL
Propoxyphene	1000 µg/mL
Ranitidine	900 µg/mL
Scopolamine	500 µg/mL
Secobarbital	1000 µg/mL
11-nor- ⁹ -THC-9-COOH	0.2 µg/mL
Thioridazine	100 µg/mL
Tramadol	100 µg/mL

Tyramine	100 µg/mL
Zidovudine (AZT)	2 mg/mL
Zolpidem	100 µg/mL

Cross-reactivity ‡

The METH method detects methadone in human urine. This method does not detect the metabolite L- α -acetylmethadol (LAAM) in concentrations that would be found in urine of patients on LAAM therapy. The table below gives the compounds this assay is designed to detect and the level at which α -acetyl-N,N-dinormethadol (dinor LAAM) has been found to give a response approximately equivalent to 300 ng/mL methadone cutoff.

Compound	Concentration
α -Acetyl-N,N-dinormethadol (dinor LAAM)	25 µg/mL

Analytical Sensitivity

The analytical sensitivity of the METH method is 107 ng/mL and represents the lowest concentration of METH that can be distinguished from zero. This sensitivity is defined as the concentration at two standard deviations above 0.0 ng/mL using Drugs of Abuse Calibrator Level A (n=20).

‡ The Dimension Vista® METH method (REF K5090) and the Dimension® METH (REF DF90A) method utilize the same reagents under equivalent reaction conditions. Interfering substances and Cross-reactivity were tested using the Dimension® METH (REF DF90A) method and the results are representative of both methods.