## **URINE METHADONE**

The EMIT II Plus Methadone Assay detects methadone. The assay does not detect the metabolite L-α-acetylmethadol (LAAM) at concentrations that would be found in the human urine of patients on LAAM therapy.

## **Non-Interfering Substances**

Each of the following compounds, when added to urine at +/- 25% concentration of the cutoff, do not yield a false response relative to the 300 ng/mL cutoff level.

Compound	Concentration
Acetone	1.0 g/dL
Ascorbic Acid	1.5 g/dL
Bilirubin	0.25 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

## **Specificity**

The table below lists concentrations ( $\mu$ g/mL) of compounds that show a negative response to the EMIT II Plus Methadone Assay at a 150 ng/mL cutoff level.

Compound Acetaminophen α-Acetyl- <i>N</i> , <i>N</i> -dinormethadol (dinor LAAM) L-α-Acetylmethadol (LAAM) N-Acetylprocainamide (NAPA) Acid	Conc. At 150 ng/mL cutoff 1000 μg/mL 25 μg/mL 2 μg/mL 400 μg/mL 1000 μg/mL
Amitriptyline	25 μg/mL
D-Amphetamine	1000 μg/mL
Benzoylecgonine	1000 μg/mL
Buprenorphine	1000 μg/mL
Caffeine	1000 μg/mL
Cimetidine	1000 μg/mL
Clomipramine	2.5 μg/mL
Clonidine	1000 μg/mL
Codeine	500 μg/mL
Cotinine	100 μg/mL
Cyclobenzaprine	62.5 μg/mL
Desipramine	800 μg/mL
Diphenhydramine	250 μg/mL
Doxepin	125 μg/mL
Doxylamine	250 μg/mL
2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP)	1000 μg/mL
Fluoxetine	500 μg/mL

500 µg/mL Glutethimid Ibuprofen 1000 µg/mL Ketamine 100 μg/mL Ketorolac Tromethamine 1000 µg/mL Lormetazepam 1 µg/mL LSD 10 ng/mL Meperidine 250 µg/mL d-Methamphetamine 35 µg/mL L-α-Methadol  $> 2 \mu g/mL$ Methaqualone 1500 µg/mL Morphine 1000 µg/mL Naproxen 1000 µg/mL Nortriptyline 750 μg/mL Oxazepam 300 µg/mL 1000 μg/mL Phencyclidine Phenytoin 1000 µg/mL 37 µg/mL Promethazine

Compound Conc. At 150 ng/mL cutoff

Propoxyphene 1000 μg/mL Ranitidine 1000 µg/mL 500 μg/mL Scopolamine Secobarbital 1000 μg/mL 11-nor-?9-THC-9-COOH 100 μg/mL Thioridazine 100 μg/mL Tramadol 1000 μg/mL **Tyramine** 100 µg/mL Zidovudine (AZT) 2 mg/mL Zolpidem 100 µg/mL

## **Sensitivity**

The sensitivity level (minimum detectable limit) of the Emit II Plus Methadone Assay is 30 ng/mL. This level represents the lowest concentration of methadone that can be distinguished from 0 ng/mL with a confidence level of 95%.

CAMC laboratories use the 300 ng/mL cutoff for the methadone assay.

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