Meperidine

Urine HEIA® Drug Screening Kit



Meperidine is a synthetic narcotic analgesic which acts on the central nervous system by a mechanism that is similar to morphine, although with a shorter duration of action. Meperidine has approximately one tenth the potency of morphine and tolerance to meperidine develops more slowly. It is used to treat moderate to severe pain, producing clinical effects of analgesia, sedation, euphoria, and respiratory depression.¹

Administration: Tablet, liquid

Elimination: Meperidine is metabolized in the liver to normeperidine and meperidinic acid.

Abuse Potential: Meperidine has potential for abuse and diversion and can be habit forming. Physical dependence and tolerance may develop upon repeated administration. Like other narcotics meperidine is subject to the provisions of the federal narcotic laws.¹

Meperidine

Formula: C₁₅H₂₁NO₂

Systematic Name:

Ethyl 1-methyl-4-phenyl-piperidine-4-carboxylate

Brand Names: Demerol[®], Dolantin[®], Mepergan[®], Pethidine

- Exclusively from Immunalysis
- Accurate and trusted results
- Liquid stable and ready to use



Meperidine Urine HEIA® Drug Screening Kit

Assay Specifications

Methodology: Homogeneous enzyme immunoassay

Cutoff: 200 ng/mL

Calibrator Range: 0-1000 ng/mL

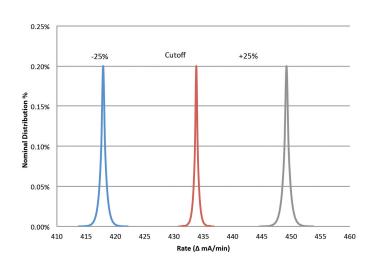
Qualitative Cross-Reactivity at 200 ng/mL Analyte Analyte Cross-Concentration **Equivalents** Reactivity (ng/mL) (ng/mL) (%) Meperidine 200 200 100 Normeperidine 1,800 200 11

Other analytes tested at 100,000 ng/mL with none detected are listed in the product insert.

Positive

Negativ

Overlap: Meperidine (200 ng/mL cutoff)



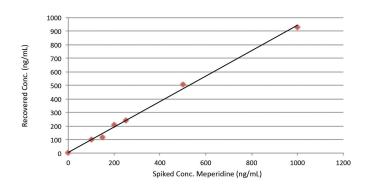
Accuracy:

HEIA

(200 ng/mL)

	GC-MS Confirmation (200 ng/mL)		
	Positive	Negative	
е	31	2	
ve	0	67	

Analytical Recovery: Meperidine



Qualitative Precision at 200 ng/mL

Interday Precision (N = 80)					
Concentration	Mean Conc. (ng/mL)	S.D.	C.V.%		
150 ng/mL (control LOW)	270	2.02	0.75		
200 ng/mL calibrator	284	2.55	0.9		
250 ng/mL (control HIGH)	303	2.36	0.78		

Order - Meperidine (HEIA)

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Catalog Number	Description				
303-0025	25 mL kit				
303-0060W	60 mL wedge kit				
303-0100	100 mL kit				
303-0500	500 mL kit				
C303-10-1	200 ng/mL calibrator				
C303-10-2	150 and 250 ng/mL controls				
C303-10-5	0, 100, 200, 500, and 1000 ng/mL calibrators				
Neg-10-1	10 mL negative reference calibrator				

The charts and data provided above were generated in studies conducted by Immunalysis Corporation. This information is intended to be representative of the performance of the assay. Refer to the product insert for a full description of the performance characteristics for semi-quantitative and qualitative testing. For forensic use only.