

6-acetylmorphine (6-AM)

Urine HEIA[®] Drug Screening Kit

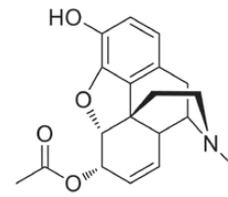


Heroin (diacetylmorphine) rapidly metabolizes to 6-acetylmorphine (6-AM or 6-monoacetylmorphine), morphine, and 3-monoacetylmorphine. 6-AM metabolizes to morphine at a slower rate and its presence in urine confirms the use of heroin.¹

Administration: Intravenous, insufflation, and oral.

Elimination: 6-AM is rapidly eliminated and excreted into the urine and the detection window is less than 24 hours.

Abuse Potential: Heroin is a Schedule I substance under the Controlled Substances Act. It has a high potential for abuse and no currently accepted medical use in treatment in the U.S. Heroin is highly addictive and tolerance develops with regular use.



Formula: C₁₉H₂₁NO₄

Systematic Name:

3-hydroxy-6-acetyl-(5 α ,6 α)-7,8-didehydro-4,5-epoxy-17-methylmorphinan

- Reduced cross-reactivity with morphine and its metabolites
- Accurate and trusted results
- Liquid stable and ready to use

Assay Specifications

Methodology: Homogeneous enzyme immunoassay

Cutoff: 10 ng/mL

Mode: Qualitative

Accuracy:

		LC-MS/MS Confirmation (10 ng/mL)	
		Positive	Negative
HEIA (10 ng/mL)	Positive	40	0
	Negative	0	40

Qualitative Cross-Reactivity

Analyte	Analyte Concentration (ng/mL)	Cross-Reactivity (%)
6-acetylmorphine	10	100
6-acetylcodeine	600	1.7
Heroin	1,375	0.7
Hydromorphone	325,000	0.003
Morphine	285,000	0.0035
Nalorphine	80,000	0.0125
Naloxone	300,000	0.0033
Naltrexone	390,000	0.0026
Norbuprenorphine	100,000	ND
Normorphine	250,000	0.004
Oxymorphone	360,000	0.0028

ND = None Detected

Other analytes tested at 1,000,000 ng/mL with cross-reactivity of 0.001% or less are listed in the product insert.

Qualitative Precision at 10 ng/mL

Interday Precision (N = 80)		
Concentration	Result	Total Result
5 ng/mL	NEG	80 Negative
7.5 ng/mL (control LOW)	NEG	80 Negative
10 ng/mL calibrator	n/a	43 Negative/ 37 Positive
12.5 ng/mL (control HIGH)	POS	80 Positive
15 ng/mL	POS	80 Positive

Order - 6-acetylmorphine (HEIA)

Catalog Number	Description
347UR-0025	25 mL kit
347UR-0060W	60 mL wedge kit
347UR-0100	100 mL kit
347UR-0500	500 mL kit
10006	10 ng/mL calibrator
3004	7.5 ng/mL and 12.5 ng/mL controls
Neg-10-1	10 mL negative calibrator

1. R. Baselt, Disposition of Toxic Drugs and Chemicals in Man, 8th Edition, p. 730-733.

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 qualitative testing. For in vitro diagnostic use.