

# Is there an accurate way to screen for Heroin use?



## Reliable solutions for drug testing

The proven Syva® EMIT® reagents and drug testing systems offered by Siemens Healthcare Diagnostics, provide you with the flexibility and capacity to meet all your drugs-of-abuse testing needs, including the ability to tailor your instrument and reagent combination to ideally suit your lab's requirements.

Siemens has more than 40 years of experience in drug testing diagnostics. Our support provides your laboratory with a high level of service, education, and training materials that enable you to keep up-to-date with the latest advancements in drugs-of-abuse testing.

Over the past two decades, the number of heroin confiscations has more than doubled.<sup>1</sup> Furthermore, an increasing amount of morphine-type drugs are prescribed as analgesics that can cross-react with traditional opiate assays.

## Can a rapid screen differentiate Heroin use from prescribed or 'over-the-counter' medications?

With the EMIT II Plus 6-Acetylmorphine (6-AM) assay, Siemens offers a safe and convenient way to selectively test for Heroin use without the need for expensive and time consuming alternate methods.

## The EMIT II Plus 6-Acetylmorphine Assay provides:

- High specificity for 6-Acetylmorphine
- No cross-reactivity to morphine, morphine metabolites, and common analgesics
- Qualitative (10 ng/mL cut-off) and semi-quantitative results
- Low analytical sensitivity of 1.1 ng/mL
- >99% agreement with the reference method (GC/MS)

Add confidence to your drug testing program with assays and systems from Siemens.



## EMIT II Plus 6-Acetylmorphine (6-AM) Assay

Answers for life.

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# EMIT II Plus 6-Acetylmorphine (6-AM) Assay Specifications

EMIT II Plus 6-Acetylmorphine Assay Performance	
Assay Principle	Homogeneous Enzyme Multiplied Immunoassay (EMIT)
Cutoff	10 ng/mL
Assay Range	0–20 ng/mL
Sample	Urine
Reagent Stability	Unopened until expiration date; Opened working reagent, 4 weeks
Calibration Frequency	Based on control results

Qualitative Precision (mA/min)						
	Level	Mean (mA/min)	Repeatability		Within-Lab	
			SD	%CV	SD	%CV
Control 1	7.5 ng/mL	558	1.5	0.3	7.0	1.3
Cutoff	10.0 ng/mL	591	1.7	0.3	6.5	1.1
Control 2	12.5 ng/mL	622	1.7	0.3	6.0	1.0

Semi-quantitative Precision (ng/mL)						
	Level	Mean (ng/mL)	Repeatability		Within-Lab	
			SD	%CV	SD	%CV
Control 1	7.5 ng/mL	8.7	0.12	1.4	0.43	5.1
Cutoff	10.0 ng/mL	11.3	0.14	1.5	0.48	4.2
Control 2	12.5 ng/mL	14.2	0.16	1.1	0.50	3.5

Ordering Information		
9R129UL	EMIT II Plus 6-AM Assay, large	R1 = 1000 mL and R2 = 500 mL
9R039UL	EMIT II Plus 6-AM Assay, small	R1 = 28 mL and R2 = 14 mL
9A509UL	EMIT Calibrator/Control Level 0	14 mL
9R529UL	EMIT II Plus 6-AM/Ecstasy Calibrator/Control Level 1	10 mL
9R549UL	EMIT II Plus 6-AM/Ecstasy Calibrator/Control Level 2	10 mL
9R569UL	EMIT II Plus 6-AM/Ecstasy Calibrator/Control Level 3	10 mL
9R589UL	EMIT II Plus 6-AM/Ecstasy Calibrator/Control Level 4	10 mL

1. World Drug Report 2009, United Nations Office on Drugs and Crime (UNODC)

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Assay Specificity	
Concentrations of compounds that produce negative results vs. the 10 ng/mL Cutoff	
Compounds	Concentration Tested (ng/mL)
Buprenorphine	1,000,000
Codeine	500,000
Dextromethorphan	100,000
Dihydrocodeine	500,000
Heroin	80
Hydrocodone	300,000
Hydromorphone	100,000
Imipramine	200,000
Levorphanol	100,000
Meperidine	800,000
Morphine	100,000
Morphine-3-Glucuronide	600,000
Morphine-6-Glucuronide	600,000
Nalorphine	100,000
Naloxone	300,000
Naltrexone	300,000
Norcodeine	600,000
Normorphine	100,000
Oxycodone	400,000
Oxymorphone	100,000

Qualitative Comparison			
	Reference Method (GC/MS)		
	+	-	
EMIT II Plus 6-AM Assay on the Viva-E System	+	49	1
	-	0	55

>99% Agreement

[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)

## Global Division

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