

# HPLC Application

ID No.: 19703

## LC/MS/MS Analysis of Methadone from urine using Strata-X-Drug B on a Kinetex C18 2.6µm, 50x2.1mm

**Column:** Kinetex® 2.6 µm C18 100 Å, LC Column 50 x 2.1 mm, Ea

**Dimensions:** 50 x 2.1 mm ID

**Order No:** 00B-4462-AN

**Elution Type:** Gradient

**Eluent A:** 0.1% Formic acid

**Eluent B:** 0.1% Formic acid in acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	60	40
	2	3.5	0	100
	3	3.51	60	40
	4	6.5	60	40

**Flow Rate:** 400 µL/min

**Col. Temp.:** ambient

**Detection:** Mass Spectrometer (MS) @ amu (ambient)

**Detector Info:** <a target="\_blank"

href="https://sciex.com/products/mass-spectrometers?utm\_campaign=2019%20application%20search&utm\_source=phenomenex&utm\_medium=referral">SCIEX<

Source: Cur-11, CAD-12, IS-4500, Tem-450, NEB-12

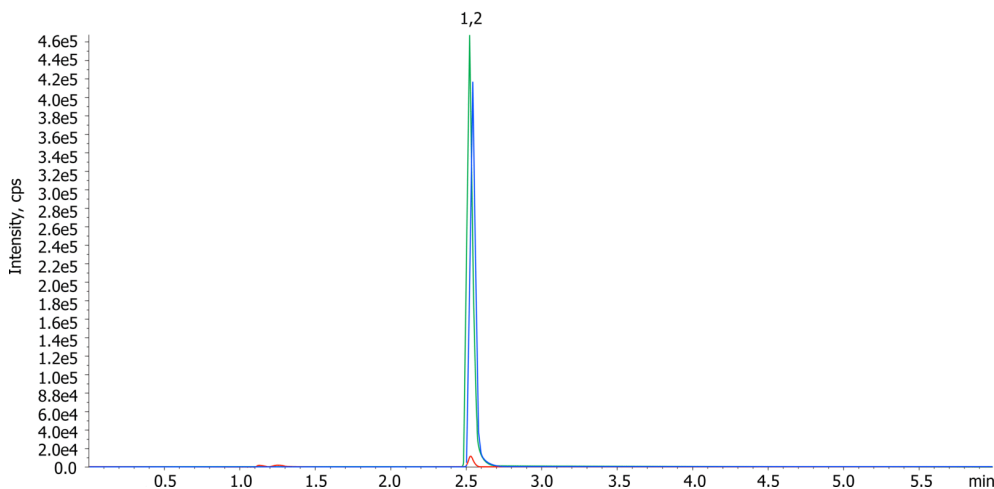
Dwell: 25ms

Polarity: Positive

19703



Products used in this application:



### ANALYTES:

1 Methadone-d9

Retention Time: 2.55 min

2 Methadone

Retention Time: 2.55 min



# Sample Preparation Details

for HPLC Application ID No.: 19703

## LC/MS/MS Analysis of Methadone from urine using Strata-X-Drug B on a Kinetex C18 2.6µm, 50x2.1mm

### PRODUCT DESCRIPTION:

Strata™-X-Drug B 33 µm Polymeric Strong Cation, 60 mg / 6 mL, Tubes , 30/Pk

Order No.: 8B-S128-UCH

### SOLID PHASE EXTRACTION (SPE) PROCEDURE:

**Note:** The solvent volumes shown below are for a 60 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### Condition:

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#### Load:

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#### Wash:

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#### Dry:

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10 minutes @ full vacuum

#### Elute:

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### Final Prep and Analysis:

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Evaporate to dryness under a stream of nitrogen at 50 C . Reconstitute in 1 mL of 40% acetonitrile.

Inject: 0 µL on HPLC Mass Spectrometer (MS) @ amu (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Methadone-d9	300			100	
2 Methadone	300			97.59	

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.  
Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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