

# HPLC Application

ID No.: 20926

## JHW018-hydroxypentyl isomers in Urine using Strata-X-Drug B

**Column:** Kinetex® 2.6 µm C18 100 Å, LC Column 150 x 3 mm, Ea

**Dimensions:** 150 x 3 mm ID

**Order No:** 00F-4462-Y0

**Elution Type:** Gradient

**Eluent A:** 10mM ammonium formate

**Eluent B:** Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	55	45
	2	7	50	50
	3	7.01	5	95
	4	10	5	95

**Flow Rate:** 0.6 mL/min

**Col. Temp.:** ambient

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

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

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

Polarity: Positive

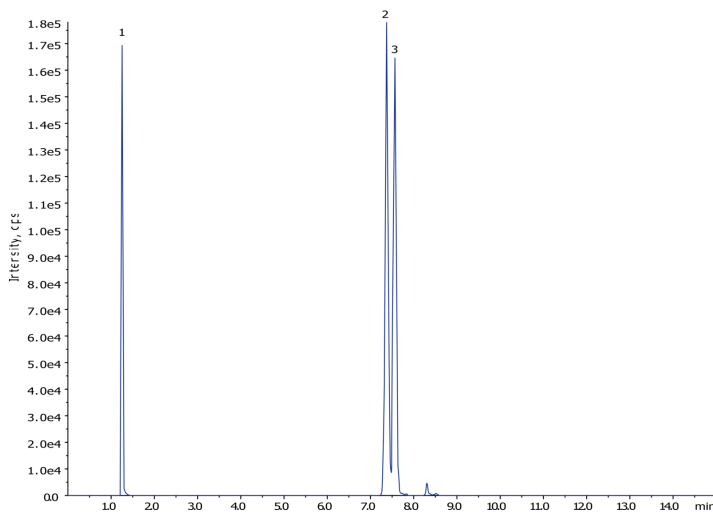
CAD: 7.00  
CUR: 20.00  
GS1: 50.00  
GS2: 50.00  
IS: 5500.00  
TEM: 550.00  
ihe: ON  
EP 10.00



Products used in this application:



App ID 20926



## JHW018-hydroxypentyl isomers in Urine using Strata-X-Drug B

### ANALYTES:

- 1 JWH-073-Butanoic acid metabolite
- 2 JWH-018-5-Hydroxypentyl metabolite
- 3 JWH-018-4-Hydroxypentyl metabolite



# Sample Preparation Details

for HPLC Application ID No.: 20926

## JHW018-hydroxypentyl isomers in Urine using Strata-X-Drug B

### PRODUCT DESCRIPTION:

Strata™-X-Drug B 33 µm Polymeric Strong Cation, 60 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S128-UBJ

### 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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Sample Hydrolysis: Combine 1 mL Human Urine sample (spiked with analytes at 50 ng/mL), 2 mL of 100 mM sodium acetate buffer, pH 5.0, 25 µL

-D-Glucuronidase (Patella Vulgata from Sigma, 100KU).

Vortex 10-15 secs, followed by incubation for 2 hours in a shaker at 55°C to complete hydrolysis of the glucuronides.

### Wash:

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### Dry:

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15 mins under 10-15" of Hg

### Elute:

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### Final Prep and Analysis:

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Extraction Protocol

(No need for conditioning or equilibration of the cartridge)

Inject: 10 µL on HPLC Mass Spectrometer (MS) @ amu (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 JWH-073-Butanoic acid metabolite					
2 JWH-018-5-Hydroxypentyl metabolite					
3 JWH-018-4-Hydroxypentyl metabolite					

**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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