Catecholamine in Human Urine

AGILITY WCX SPE CARTRIDGES

Application Note: AGWCX10001

OROCHEM
Molecular Purification by Design

For Free Consultation,
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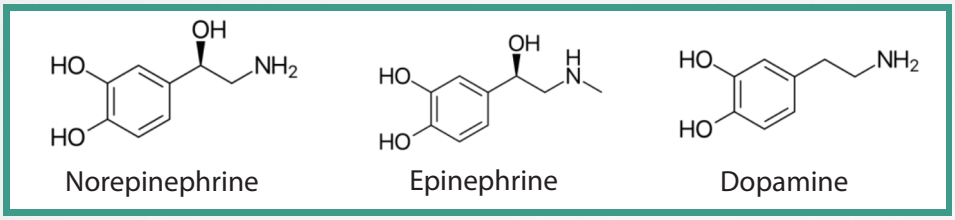
Compounds:



SPE EXTRACTION METHOD:

(Agiltiy WCX SPE cartridge, 30 mg/3cc, SYAG8030-3)

HPLC METHOD:

Column:	Orochem Reliasil C18 HPLC column 4.6 x 50 mm, 3 µm
Catalog Number:	R3BI-101
Mobile Phase:	A: 0.1% formic acid in water B: 0.1% formic acid in methanol
Gradient:	Initial 1% B for 1 min, then gradient to 50% B at 3 min, and hold 1 min
Flow rate:	0.5 mL/min
Injection volume:	20 µL
Retention times:	Norepinephrine: 1.8 min Epinephrine: 2.3 min Dopamine: 3.0 min

Condition:
1 mL of ACN, followed by 1 mL of 50 mM NH_4AC

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Load:
0.2 mL of human urine sample

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Wash:
1 mL of 10% methanol, followed by 1 mL of IPA

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Elute:
1 mL of 5% formic acid in ACN

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Evaporate & Reconstitute:
200 µL of 10% methanol with 0.1% formic acid

MS/MS CONDITIONS:

Mass spectrometer:	API3000
Ion source:	Turbo Ionspary
Polarity:	Positive
IS:	3500
Temperature:	400
DP:	various by analytes
CAD:	12
EP:	10
CE:	various by analytes
CXP:	10
Scan mode:	MRM

Steroids	Quantifier ions	Qualifier ions
	Q1/Q3	Q1/Q3
Epinephrine	184.2/166.2	
Norepinephrine	170.0/152.1	152.1/107.0
Dopamine	154.1/137.2	154.1/191.0

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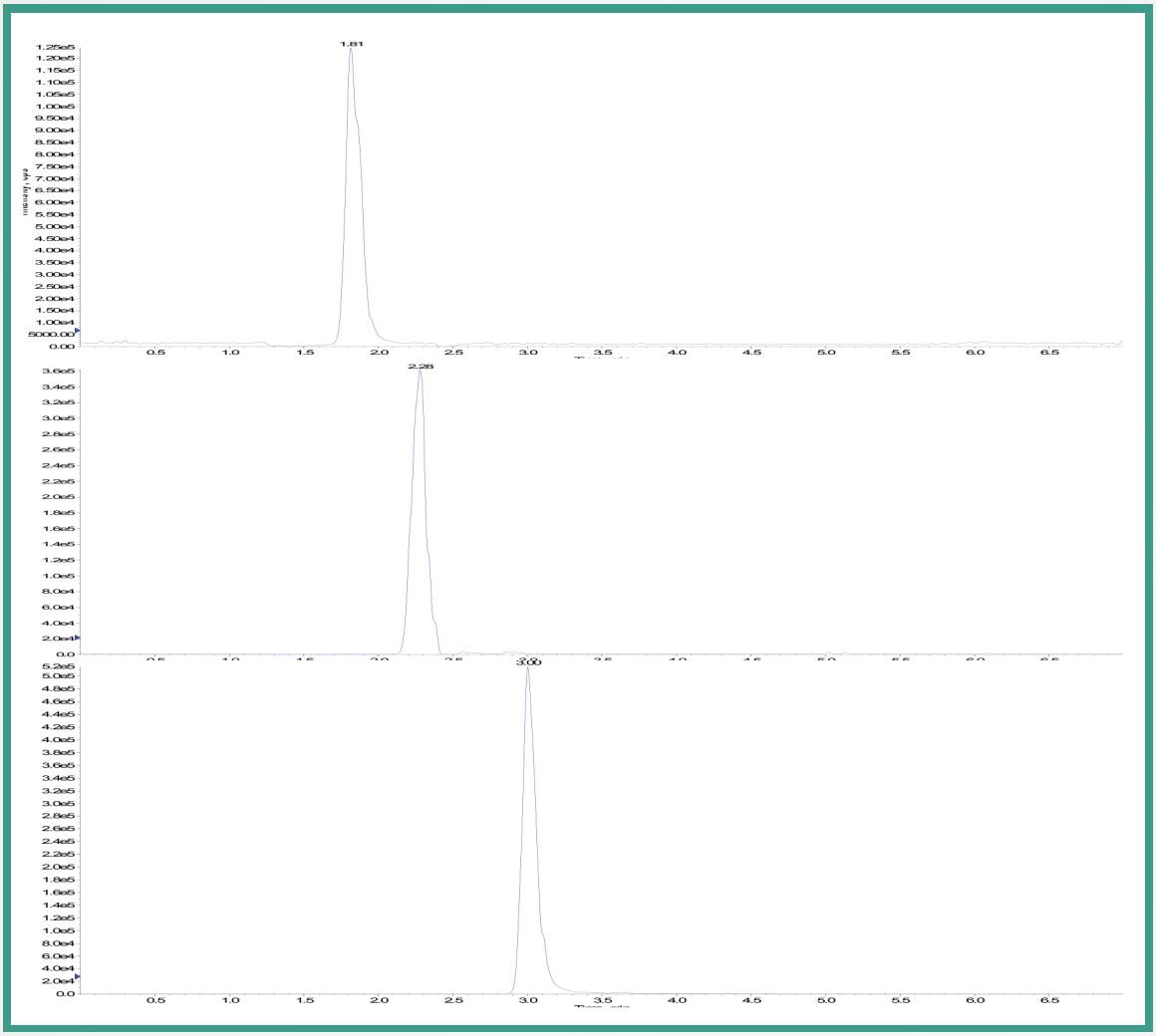

Results			
Chemicals	**Norepinephrine**	**Epinephrine**	**Dopamine**
Recovery(%)	93.9	99.3	**86.8**
CV(%)	11.6	7.0	**11.1**