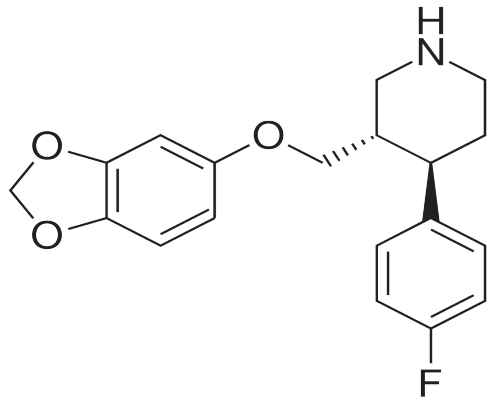
Paroxetine In Blood, Plasma/Serum and Urine. LC-MS/MS Confirmations Using: 200 mg CSDAU Extraction Column



UCT Part Numbers

ZSDAU020
Clean Screen® DAU
10 mL, 200 mg sorbent

Procedure:

1. Prepare Sample

a) To 1 mL of 100 mM phosphate buffer (pH= 6) add internal standards*.
b) Add 1 mL whole blood, Serum/Plasma or Urine. Add 2 mL of 100 mM phosphate buffer (pH= 6).
c) Vortex and centrifuge as appropriate.

2. Condition Column

a) 1 x 3 mL CH_3OH.
b) 1 x 3 mL D.I. H_2O.
c) 1 x 3 mL 100 mM phosphate buffer (pH=6).

Note: Aspirate at < 3 inches Hg to prevent sorbent drying out.

3. Apply Sample

a) Load sample at 1-2 mL / minute.

4. Wash Column

a) 1 x 3 mL D.I. H_2O.
b) 1 x 3 mL 100 mM acetic acid.
c) 1 x 3 mL CH_3OH.
d) Dry column (5 minutes at > 10 inches Hg).

5. Elute Paroxetine

a) 1 x 3 mL Ethyl acetate: acetonitrile: ammonium hydroxide (78:20:2)
b) Collect eluate at 1-2 mL / minute.

6. Evaporation

a) Evaporate eluates under a gentle stream of nitrogen < 40°.
b) Dissolve residue in 100 µL CH_3OH.

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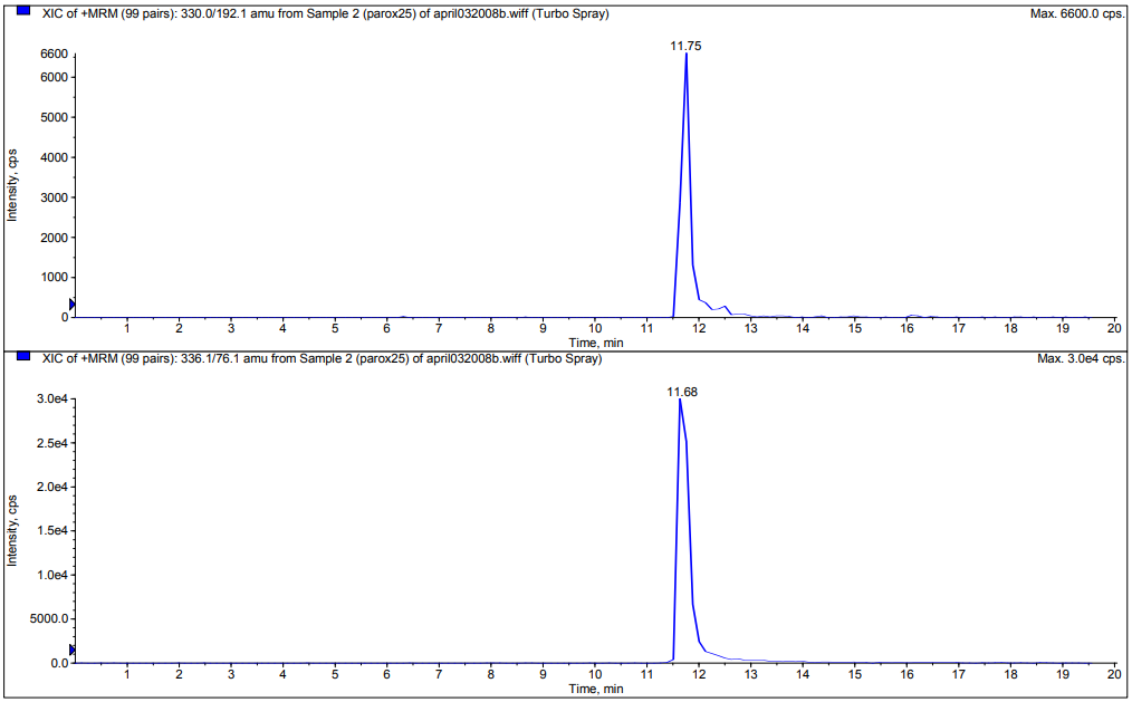
Instrument Conditions	
Column	50 x 2.1 mm (3 µm) Selectra® Phenyl (UCT, LLC)
Flow Rate	0.35 mL/minute
Injection Volume	5 µL
Column Temperature	ambient
Detector	API 2000 MS/MS

Mobile Phase		
Time	**Acetonitrile**	**0.1% Formic Acid aq**
0	10	90
15	50	50
16	10	90
20	10	10
Compound	**MRM Transition**	**Cerilliant #**
Paroxetine	330.0/190.1	P-915
Paroxetine-D6	336.0/ 76.1	A-916

Chromatogram:



Paroxetine, Paroxetine-D6

Recovery: > 90% (N=20)
LOD: 1 ng/ mL

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