PAROXETINE IN BLOOD, PLASMA/SERUM, URINE, TISSUE BY LC-MS/MS OR GC-MS CLEAN SCREEN® DAU EXTRACTION COLUMN

Part #

ZSDAU020 – CLEAN SCREEN® DAU 200 mg, 10 mL Tube

SLDA50ID21-3UM - SELECTRA® DA HPLC Column 50 x 2.1 mm, 3 µm

1. PREPARE SAMPLE:

To 1 mL of 100 mM phosphate buffer (pH 6.0) add internal standards
Add 1 -2 mL of blood, plasma/ serum, urine, or 1 g (1:4) tissue homogenate
Mix/vortex and let stand for 5 minutes
Add 2 mL of 100 mM phosphate buffer (pH 6.0). Mix/vortex
Sample pH should be 6.0 ± 0.5.
Adjust pH accordingly with 100 mM monobasic or dibasic sodium phosphate.
Centrifuge for 10 minutes at 2000 rpm and discard pellet

2. CONDITION CLEAN SCREEN® EXTRACTION COLUMN:

1 x 3 mL CH_3OH
1 x 3 mL D.I. H_2O
1 x 3 mL 100 mM phosphate buffer (pH 6.0)
NOTE: Aspirate at full vacuum or pressure

3. APPLY SAMPLE:

Load at 1 to 2 mL/minute

4. WASH COLUMN:

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

5. ELUTE PAROXETINE:

1 x 3 mL Ethyl Acetate/ Acetonitrile/ NH_4OH (78:20:2)
Collect eluate at 1-2 mL / minute.

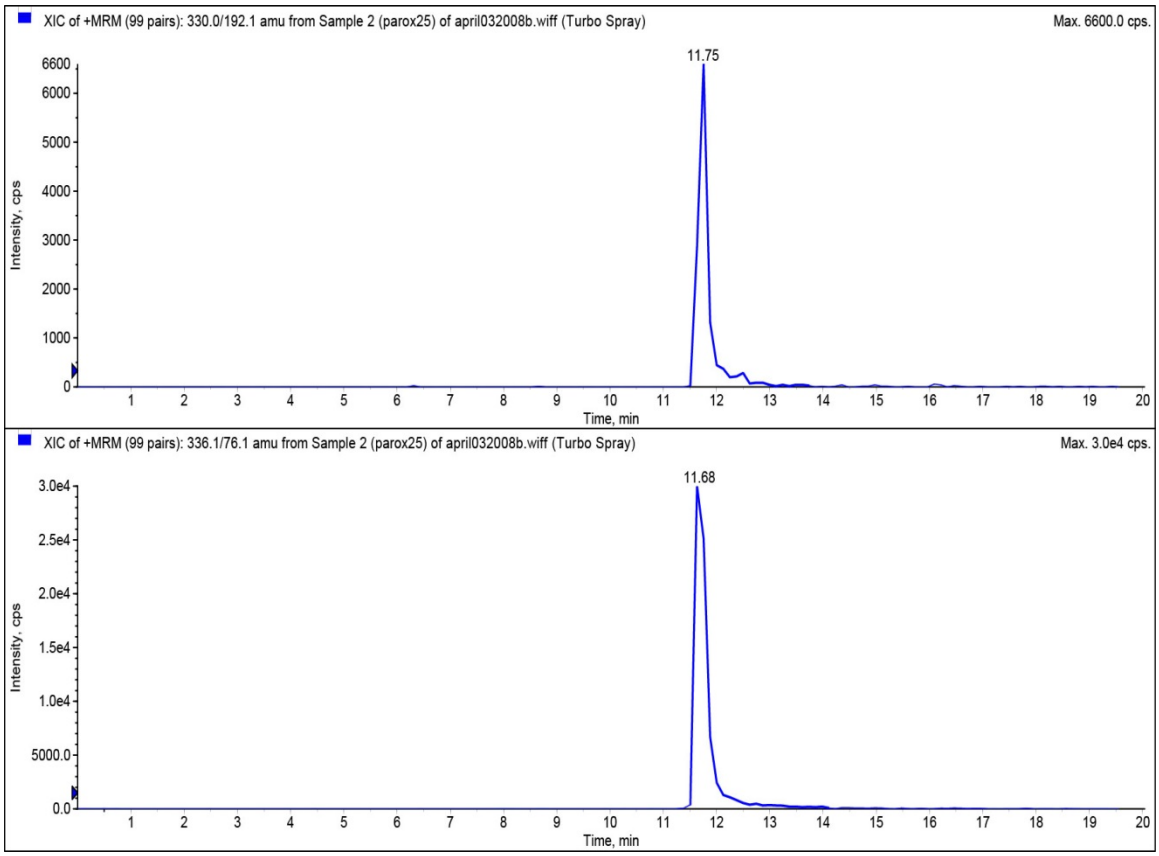
6. DRY ELUATE:

Evaporate to dryness at < 40 °C

7. RECONSTITUTE / DERIVATIZE:

- **LC-MS/MS:** Reconstitute sample in 100 µL of Methanol
  Inject 5 µL.
- **GC-MS**: Dissolve residue in 100 µL of Ethyl Acetate
  Inject 1 to 2 µL onto gas chromatograph.

INSTRUMENT CONDITIONS (LC-MS/MS):



Analyte	MRM Transitions	
	Q1	Q3
Paroxetine	**330.0**	**190.1**
Paroxetine-D_6	**336.0**	**76.1**

PARAMETERS

Mobile Phase A: 0.1% Formic Acid in D.I. H_2O

Mobile Phase B: 0.1% Formic Acid in Acetonitrile

Flow Rate: 0.35 mL/minute

Polarity: Positive

Reconstitute: 100 µL

Injection Volume: 5 µL

LC Column: Selectra® DA HPLC Column 50 x 2.1 mm 3 µm

Instrument: API 3200 Qtrap MS/MS with Shimadzu Prominence UFLC

Gradient:

Time	%A	%B
0.0	90	10
15.0	50	50
16.0	90	10
20.0	90	10
20.5	STOP	