



**PAROXETINE IN BLOOD, PLASMA/ SERUM AND URINE.
LC-MSMS CONFIRMATIONS USING: 200 mg CSDAU
EXTRACTION COLUMN**

Part #: ZSDAU020

1. PREPARE SAMPLE:

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

2. CONDITION COLUMN:

1 x 3 mL CH₃OH
1 x 3 mL D.I. H₂O
1 x 3 mL 100 mM phosphate buffer (pH=6).

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

3. APPLY SAMPLE:

Load sample at 1-2 mL / minute.

4. WASH COLUMN:

1 x 3 mL D.I. H₂O
1 x 3 mL 100 mM acetic acid
1 x 3 mL CH₃OH
Dry column (5 minutes at > 10 inches Hg).

5. ELUTE PAROXETINE:

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

6. EVAPORATION:

Evaporate eluates under a gentle stream of nitrogen < 40°.
Dissolve residue in 100 µL CH₃OH.

INSTRUMENT CONDITIONS:

Column: 50 x 2.1 mm (3 µm) Selectra[®] Phenyl (UCT, LLC)

| <u>Mobile phase:</u> | <u>Time</u> | <u>Acetonitrile</u> | <u>0.1% Formic Acid aq</u> |
|----------------------|-------------|---------------------|----------------------------|
| | 0 | 10 | 90 |
| | 15 | 50 | 50 |
| | 16 | 10 | 90 |
| | 20 | 10 | 10 |

Flow rate: 0.35 mL/ minute

Injection Volume: 5 µL

Column Temperature: ambient

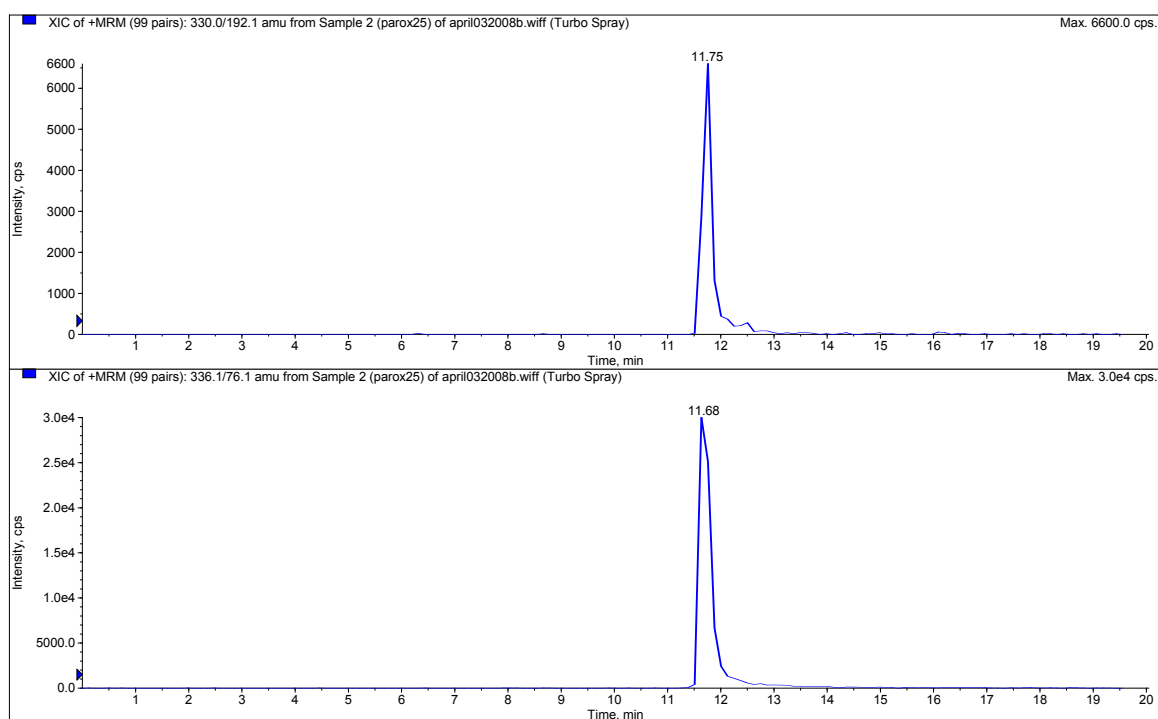
Detector: API 2000 MS/MS.

| <u>Compound</u> | <u>MRM Transition</u> | <u>Cerilliant #</u> |
|-----------------|-----------------------|---------------------|
| Paroxetine | 330.0/190.1 | P-915 |
| Paroxetine-D6 | 336.0/ 76.1 | A-916 |

CHROMATOGRAM OF:

Paroxetine

Paroxetine-D6



Recovery: > 90% (N=20)

LOD: 1 ng/ mL