PAROXETINE IN BLOOD, PLASMA/ SERUM AND URINE. LC-MSMS CONFIRMATIONS USING 200 mg CLEAN SCREEN® DAU EXTRACTION COLUMN

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

1. **PREPARE SAMPLE:**
   To 1 mL of 100 mM phosphate buffer (pH 6.0) add internal standards*.
   Add 1 mL whole blood, Serum/Plasma or Urine. Add 2 mL of 100 mM phosphate buffer (pH 6.0).
   Vortex and centrifuge as appropriate.

2. **CONDITION 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 < 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. 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. **EVAPORATION:**
   Evaporate eluates under a gentle stream of nitrogen < 40 °C
   Dissolve residue in 100 µL Methanol.

INSTRUMENT CONDITIONS:

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

Mobile phase:

Time	Acetonitrile	0.1% Formic Acid aq
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.

Compound	MRM Transition
Paroxetine	330.0 / 190.1
Paroxetine-D6	336.0 / 76.1

CHROMATOGRAM :