



SERTRALINE AND DESMETHYLSERTRALINE IN BLOOD, PLASMA / SERUM FOR HPLC ANALYSIS USING: 200 mg CLEAN SCREEN[®] EXTRACTION COLUMN

Part #: ZSDAU020 without Tips or ZCDAU020 with CLEAN-THRU[®] Tips

1. PREPARE SAMPLE

To 4 mL D.I. H₂O add 2 mL of 100 mM phosphate buffer (pH= 6.0). To this add internal standard*
Add 1 mL of blood, plasma/serum or urine. Mix/vortex.
Centrifuge for 10 minutes at 2000 rpm and discard pellet.
Sample pH should be 6.0 ± 0.5.
Adjust pH accordingly with 100 mM monobasic or dibasic sodium phosphate.

2. CONDITION CLEAN SCREEN[®] EXTRACTION COLUMN

1 x 3 mL CH₃OH.
1 x 3 mL D.I. H₂O.
1 x 1 mL 100 mM phosphate buffer (pH= 6.0).
NOTE: Aspirate at < 3 inches Hg to prevent sorbent drying.

3. APPLY SAMPLE

Load at 1 mL/minute.

4. WASH COLUMN

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

5. ELUTE

1 x 3 mL CH₂Cl₂/IPA/NH₄OH (78:20:2); Collect eluate at 1 mL/minute.
NOTE: Prepare elution solvent fresh daily. Add IPA/NH₄OH, mix, then add CH₂Cl₂

6. DRY ELUATE

Evaporate to dryness at < 40°C.

7. QUANTITATE

Reconstitute with 200 µL acetonitrile :D.I. H₂O (1 :3).
Mix/vortex vigorously for 30 seconds.
Inject 100 µL onto chromatograph at wavelength 235 nm.
Mobile phase = 0.25 M potassium phosphate (pH 2.7).
Containing 30% CH₃CN.
Flow rate = 2 mL/minute.

HPLC SYSTEM:

Isocratic HPLC using a Pump thru a C8 HPLC Column
(LC-8 or equivalent HPLC Column) 15 cm x 4.6 mm ID
Coupled to a UV detector set at 235 nm.

<u>Compound</u>	<u>Cerillant #</u>
Sertraline	S-006
**Desmethylsertraline	N-049
** Nosertraline= Desmethylsertraline	