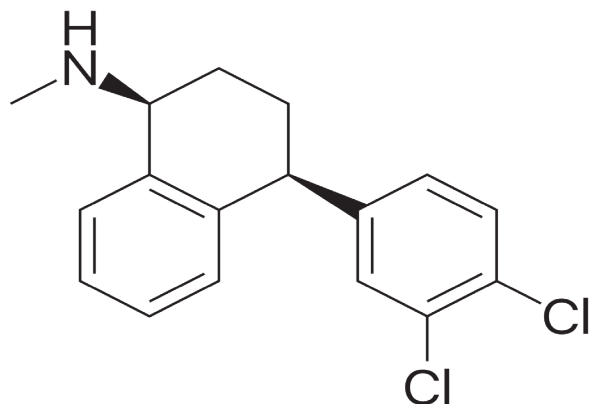


Sertraline and Desmethylsertraline In Blood, Plasma/Serum For HPLC Analysis Using: 200 mg Clean Screen® Extraction Column



UCT Part Numbers

ZSDAU020
Clean Screen® DAU
10 mL, 200 mg sorbent
Without Tips

Or

ZCDAU020
Clean Screen® DAU
10 mL, 200 mg sorbent
With CLEAN-THRU® Tips

Procedure:

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 3 mL 100 mM phosphate buffer (pH=6).
- Note:** Aspirate at < 3 inches Hg to prevent sorbent drying out.

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.

Compound	Cerillant #
Sertraline	S-006
**Desmethylsertraline	N-049
** Nosertraline= Desmethylsertraline	

DCN-900840-150

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