

Basic Drugs 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 1 mL of 100 mM phosphate buffer (pH= 6.0) add internal standards*. Mix/vortex. Add 1-5 mL of urine or 1 mL of blood, plasma/serum or 1g (1: 4) tissue homogenate.
- Mix/vortex.
- Add 2 mL of 100 mM phosphate buffer (pH 6.0)
- Sample pH should be 6.0 ± 0.5 .
- Adjust pH accordingly with 100 mM monobasic or dibasic sodium phosphate.
- Centrifuge as appropriate.

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 to 2 mL/minute.

4. Wash Column

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

5. Elute Bases

- 1 x 2 mL CH₃OH/NH₄OH (98:2)
 - Collect eluate at 1 to 2 mL/minute.
- Note:** Prepare elution solvent daily

6. Extract

- To eluate add 2.0 mL D.I. H₂O and 500 µL methylene chloride.
- Mix/vortex.
- Centrifuge at 2,000 RPM for 10 minutes.
- Transfer organic lower layer to a clean test tube.

7. Evaporate

- Evaporate to dryness at < 40°C.

8. Quantitate

- Reconstitute in mobile phase and inject onto the HPLC



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