

Benzodiazepines In Serum Or Plasma For HPLC Analysis Using: 200 mg Clean Screen® DAU Extraction Column



UCT Part Numbers

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

Or

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

Procedure:

1. Prepare Sample

- To 1.0 mL of 100 mM phosphate buffer (pH 6.0) add internal standard(s).
- Add 1 mL of serum or plasma
- Mix/vortex.
- 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 CH_3OH .
 - 1 x 3 mL D.I. H_2O .
 - 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 Sample

- 1 x 2 mL D.I. H_2O .
- 1 x 2 mL 20% acetonitrile in 100 mM phosphate buffer (pH= 6.0).
- Dry column (10 minutes at > 10 inches Hg).
- 1 x 2 mL hexane.

5. Elute Benzodiazepines

- 1 x 5 mL ethyl acetate containing 2% ammonium hydroxide
- Collect eluate at 1 to 2 mL/minute.

6. Dry Eluate

- Evaporate to dryness at < 40°C.

7. Reconstitute

- Reconstitute in mobile phase.

8. Quantitate

- Inject sample onto HPLC.



References:

[1] UCT Internal Publication

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