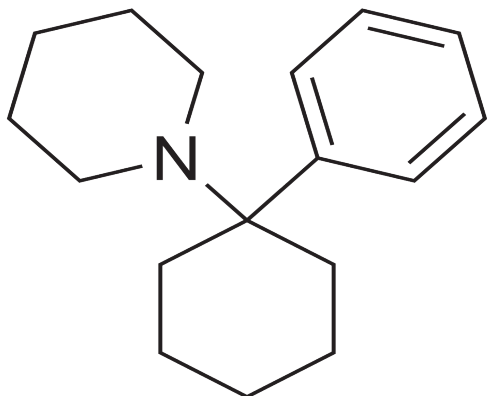


Phencyclidine In Blood, Plasma/Serum Urine and Tissue For GC OR GC/MS Confirmations Using: 200 mg Clean Screen® Extraction Column



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 standard(s)*. Add 1 mL blood, plasma/serum, urine or 1 g (1:4) tissue homogenate. Mix/vortex.
- Add 2 mL of 100 mM phosphate buffer (pH= 6.0). 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 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 CH₃OH.
- Dry column (5 minutes at > 10 inch Hg).

5. Elute Phencyclidine

- 1 x 3 mL Methylene Chloride/Isopropanol/Ammonium Hydroxide (78:20:2).

Note: Prepare elution solvent daily. Add IPA/NH₄OH, mix, then add CH₂Cl₂.

6. Dry Eluate

- Evaporate to dryness at < 40°C.
- Remove immediately upon completion.
- Reconstitute with 100 µL ethyl acetate.

7. Quantitate

- Inject 1 to 2 µL onto gas chromatograph.
- For MSD monitor the following ions:

Compound	Primary***	Secondary	Tertiary	Ceriliant #
Phencyclidine-D5*	205	96	247	P-003
Phencyclidine	200	91	242	P-007

* Suggested internal standard for GC/MS: D5-Phencyclidine

*** Quantitation Ion



References:

[1] UCT Internal Publication

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