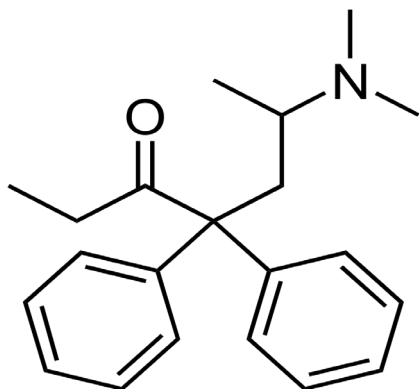


Methadone In Urine For GC Or GC/MS Confirmations Using: 200 mg Clean Screen® Extraction Column



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 2 mL of urine add internal standard(s)* and 1 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.

2. Condition Clean Screen® Extraction Column

- 1 x 3 mL CH₃OH.
- 1 x 3 mL D.I. H₂O.
- 1 x 2 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 DI H₂O.
- 1 x 1 mL 100 mM acetic acid.
- 1 x 3 mL CH₃OH.
- Dry column (5 minutes at > 10 inches Hg).

5. Elute Methadone

- 1 x 3 mL CH₂Cl₂ / IPA/NH₄OH (78:20:2); Collect eluate at 1 to 2 mL / minute.

Note: Prepare elution solvent daily. Add IPA/NH₄OH, mix, then add CH₂Cl₂ (pH 11-12)

6. Concentrate

- Evaporate to dryness at < 40 °C.
- Reconstitute with 100 µL acetonitrile**.

7. Quantitate

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

Analyte	Primary Ion**	Secondary	Tertiary	Cerilliant #
*Methadone-D ₉	78	226	303	M-008
Methadone	72	223	294	M-007

* Suggested internal standard for GC/MS: D₉-Methadone

** Part # SACN-0-50

*** Quantitation ion

UCT, LLC • 2731 Bartram Road • Bristol, PA 19007 800.385.3153 • 215.781.9255

www.unitedchem.com Email: methods@unitedchem.com

©UCT, LLC 2008 • All rights reserved



