METHADONE IN URINE FOR GC OR GC/MS CONFIRMATIONS USING: 200 mg CLEAN SCREEN® EXTRACTION COLUMN

Part #: ZSDAU020 without Tips or ZCDAU020 with CLEAN-THRU® Tips

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 CH_3OH.
1 x 3 mL D.I. H_2O.
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 D.I. H_2O.
1 x 1 mL 100 mM acetic acid.
1 x 3 mL CH_3OH.
Dry column (5 minutes at > 10 inches Hg).

5. ELUTE METHADONE

1 x 3 mL CH_2Cl_2 / IPA/NH_4OH (78:20:2); Collect eluate at
1 to 2 mL / minute.
NOTE: Prepare elution solvent daily. Add IPA/NH_4OH, mix, then add CH_2Cl_2 (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:

Compound	Primary***	Secondary	Tertiary	Cerilliant #
*Methadone-D9	78	226	303	M-008
Methadone	72	223	294	M-007

* Suggested internal standard for GC/MS: D_9-Methadone
** Part # SACN-0-50
*** Quantitation ion