METHAQUALONE IN BLOOD, PLASMA/SERUM AND 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 1 mL of 100 mM phosphate buffer (pH= 6.0) and add internal standard*. Add 2 mL of blood, plasma/serum or urine.
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 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 COLUMN

1 x 3 mL D.I. H_2O.
Dry column (5 minutes at > 10 inches Hg).
1 x 2 mL hexane.

5. ELUTE METHAQUALONE

1 x 3 mL hexane/ethyl acetate (50:50); Collect eluate.

6. DRY ELUATE

Evaporate to dryness at < 40°C.
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	Cerilliant #
Methaqualone	235	250	233	M-015
Hexobarbital*	221	157	156	H-013
Methaqualone-D7	240	257	240	M-014

* Suggested internal standard (s) for GC/MS: Hexobarbital, Methaqualone-D7
*** Quantitation ion

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UCT, Inc. • 2731 Bartram Road • Bristol, PA 19007 • 800.385.3153 • 215.781.9255 • www.unitedchem.com • Email: methods@unitedchem.com