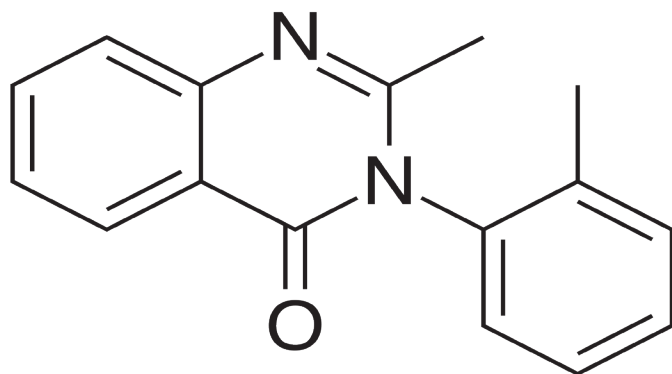


Methaqualone In Blood, Plasma/Serum, and Urine Using: 200 mg Clean Screen® Extraction Column



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) add internal standard.*
- Add 1 mL of whole blood, serum/plasma or urine. Add 2 mL of 100 mM phosphate buffer (pH=6).
- Vortex and centrifuge as appropriate.

2. Condition Column

- 1 x 1 mL CH₃OH.
 - 1 x 1 mL DI H₂O.
 - 1 x 0.5 mL 100 mM phosphate buffer (pH=6).
- Note:** Aspirate at < 3 inches Hg to prevent sorbent drying.

3. Apply Sample

- Load at 1-2 mL/minute.

4. Wash Column

- 1 x 3 mL D.I. H₂O.
- Dry column (5 minutes at > 10 inches Hg).
- 1 x 3 mL hexane
- Dry column (5 minutes at > 10 inches Hg).

5. Elute Benzodiazepines

- 1 x 3 mL hexane/ ethyl acetate (50:50).
- Collect eluate at 1 to 2 mL/minute.

6. Evaporation

- Evaporate eluates under a gentle stream of nitrogen < 40°.

7. Reconstitute the residue in 100 µL of CH₃OH.

- Inject 5 µL.

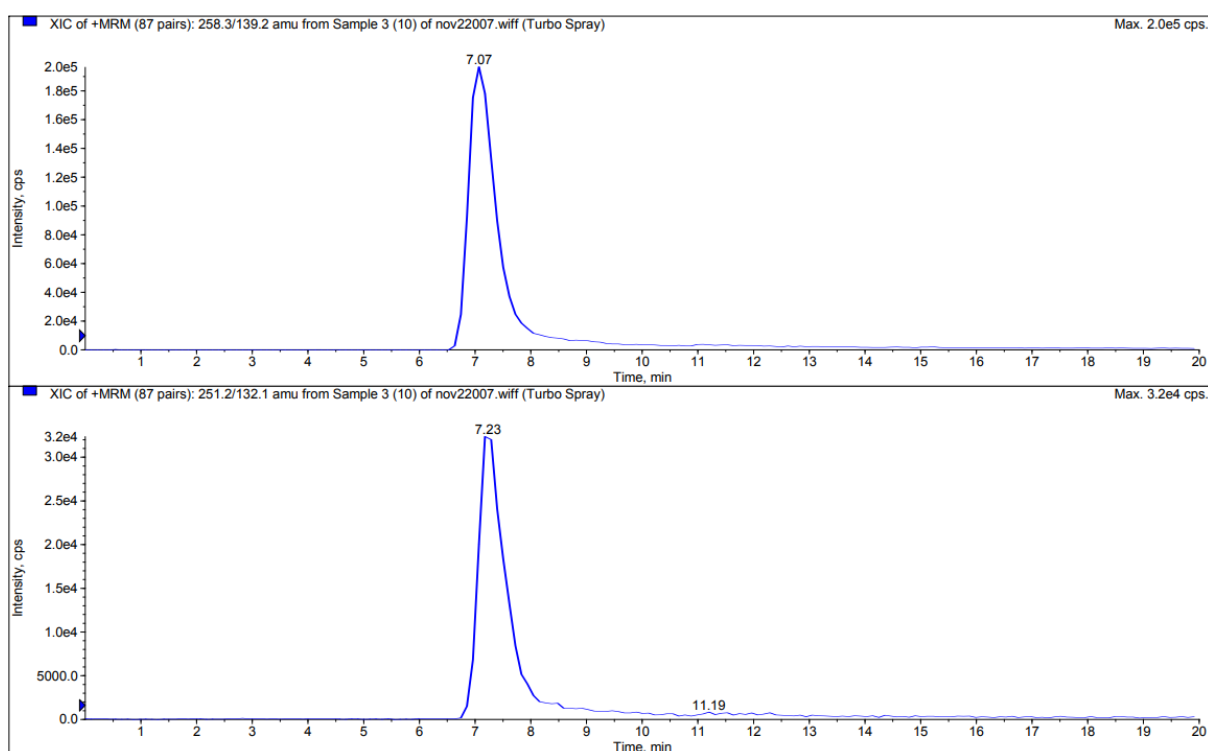


Instrument Conditions

Column	150 x 2.1 mm (3 µm) SB-Aq (Agilent Technologies)
Mobile Phase	Acetonitrile: 0.1% Formic acid (30:70)
Flow Rate	0.35 mL/ minute
Column Temperature	ambient
Detector	API 2000 MS/MS

Compound	MRM Transistion	Cerilliant #
Methaqualone	251.2/ 132.1	M-015
*Methaqualone-D7	258.2/138.2	M-014

Chromatogram of Methaqualone/ Methaqualone-D7 (10 ng/ mL)



Recovery: > 90% (N=10)

LOD: 1.0 ng/ mL

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

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

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