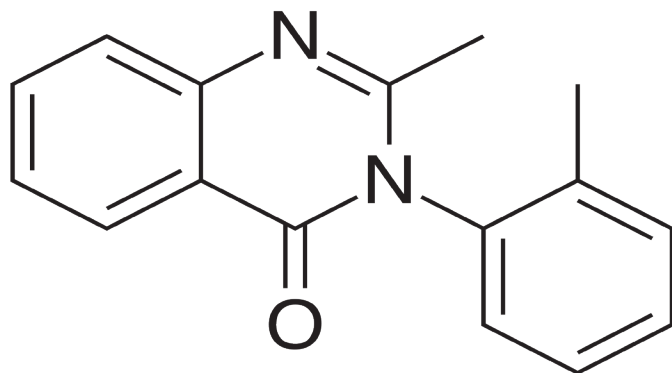


# Methaqualone In Blood, Plasma/Serum, and Urine For GC Or GC/MS Confirmations Using: 200 mg Clean Screen® Extraction Column



## 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 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  $6.0 \pm 0.5$ .
- 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<sub>3</sub>OH.
- 1 x 3 mL D.I. H<sub>2</sub>O.
- 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<sub>2</sub>O.
- 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



## References:

[1] UCT Internal Publication

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