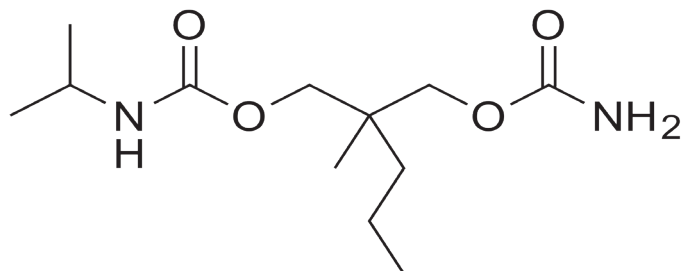


Carisoprodol and Meprobamate In Equine Urine For GC/MS Confirmations



UCT Part Numbers

XRDAH206

200 mg XtrackT® DAU Extraction
Column in 6 mL cartridge

SPPHO6001-10

Select pH Buffer Pouch
100 mM Phosphate, pH 6.0

SBSTFA-1-1

SELECTRA-SIL® BSTFA w/ 1%
TMCS, 10 x 1 gm vials

Procedure:

1. Prepare Sample

- To 2 mL of urine add internal standard(s) and 1 mL of 100 mM phosphate buffer (pH= 6).
- Mix/vortex.
- Sample pH should be 6.0 ± 0.5
- Adjust pH accordingly with 100 mM monobasic or dibasic sodium phosphate.
- Centrifuge at 3000 RPM for 10 minutes
- Add 10 mL of McIlvaine's** Buffer/Methanol 1:1.
- Shake for 1 minute.
- Centrifuge at 5000 rpm for 10 minutes.
- Collect the supernatant.
- Repeat steps f) through i) until a volume of 20 mL of supernatant is obtained.

2. Condition XTRACTT® DAU Extraction Column

- 1 x 3 mL CH₃OH.
- 1 x 3 mL D.I. H₂O.
- 1 x 1 mL 100 mM phosphate buffer (pH= 6).

Note: Aspirate at full vacuum or pressure.

3. Apply Sample

- Load at 1 to 2 mL/ minute.

4. Wash Column

- 1 x 3 mL D.I. H₂O.
- 1 x 1 mL 100 mM acetic acid.
- Dry column (5 minutes at full vacuum or pressure).
- 1 x 2 mL hexane.

5. Elute Barbituates

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

6. Dry Eluate

- Evaporate to dryness at $< 40^{\circ}\text{C}$.
- Reconstitute with 100 μL ethyl acetate.

7. Derivatize

- Add 50 μL ethyl acetate and 50 μL BSTFA w/1% TMCS.
- Mix/vortex.
- React 20 minutes at 70°C .
- Remove from heat source to cool.

Note: Do not evaporate BSTFA.

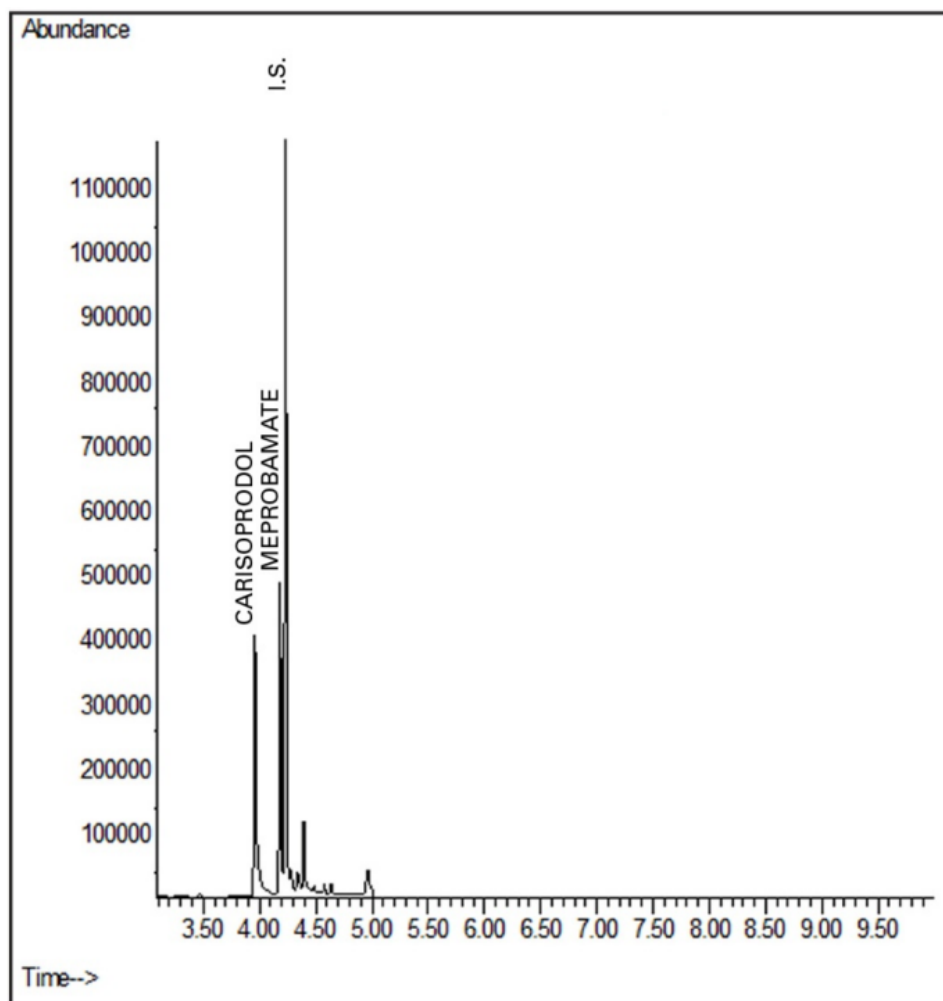
8. Quantitative

- Inject 1 to 2 μL onto gas chromatograph.



Chromatogram

Carisoprodol, Meprobamate, and Hexobabital (Internal Standard)



Mass Spec Table

Compound	Primary Ion
Carisoprodol	221
Meprobamate	157
Hexobarbital	236

4107-05-01

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