CARISOPRODOL AND MEPROBAMATE IN EQUINE URINE FOR GC/MS CONFIRMATIONS

Part Numbers:
XRDAH206 - 200 mg XtrackT® DAU Extraction Column in 6 mL cartridge
SPHPHO6001-10 - Select pH Buffer Pouches 100mM Phosphate pH 6.0
SBSTFA-1-1 – SELECTRA-SIL® BSTFA w/1% TMCS, 10 x 1gm vials

August 2014

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

2. **CONDITION XTRACKT® DAU 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)

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. H_2O
   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°C
   Reconstitute with 100 µL ethyl acetate

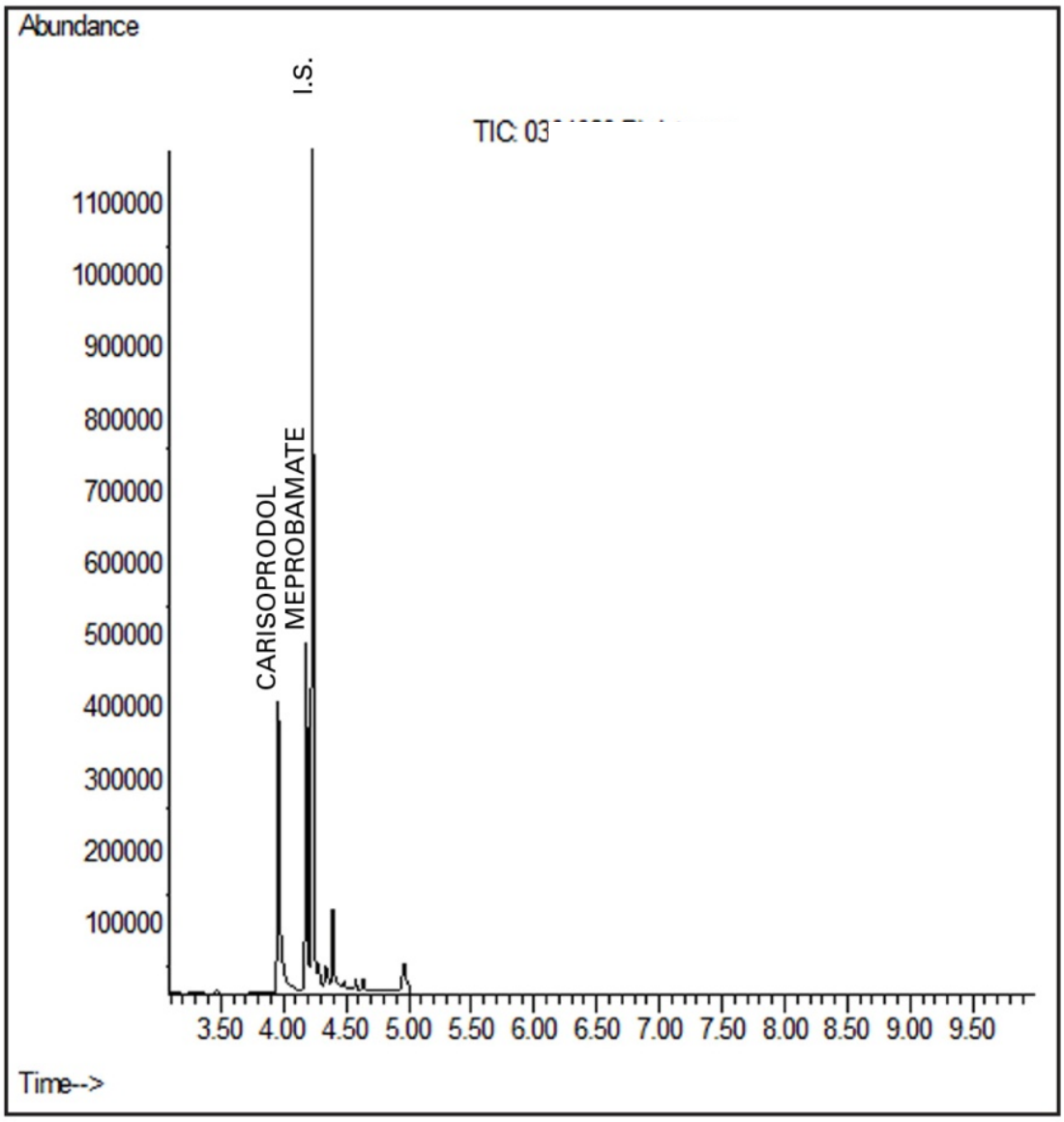
7. **DERIVATIZE:**
   Add 50 µL ethyl acetate and 50 µL BSTFA w/1% TMCS
   Mix/vortex
   React 20 minutes at 70°C
   Remove from heat source to cool

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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