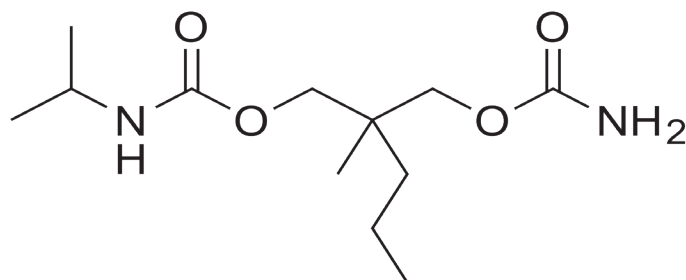


Carisoprodol and Meprobamate Whole Blood, Serum/Plasma, Urine and Tissue Samples. LC-MS/MS Confirmations Using: 200 mg Clean Screen® DAU Extraction Column



UCT Part Numbers

ZSDAU020
Clean Screen® DAU
10 mL, 200 mg sorbent
Without Tips

Procedure:

1. Prepare Sample

- To 1 mL of 100 mM phosphate buffer (pH 6) add internal standards.*
- Add 1 mL of whole blood, serum/ plasma, urine or 1 g of tissue sample (1: 4 homogenate)
- Vortex mix
- Add 2 mL of 100 mM phosphate buffer (pH 6) and vortex mix
- Centrifuge as appropriate

2. Condition Column

- 1 x 3 mL CH₃OH
 - 1 x 3 mL D.I. H₂O
 - 1 x 3 mL 100 mM phosphate buffer (pH= 6.0)
- Note:** Aspirate at < 3 inches Hg to prevent sorbent drying

3. Apply Sample

- Load sample at 1-2 mL/minute

4. Wash Column

- 1 x 3 mL D.I. H₂O.
- 1 x 3 mL 100 mM hydrochloric acid.
- Dry column (10 minutes at >10 inches Hg)
- 1 x 3 mL hexane

5. Elute Carisoprodol/Meprobamate

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

6. Evaporation

- Evaporate eluates under a gentle stream of nitrogen < 40°C
- Dissolve residue in 50 µL CH₃OH

Instrument Conditions

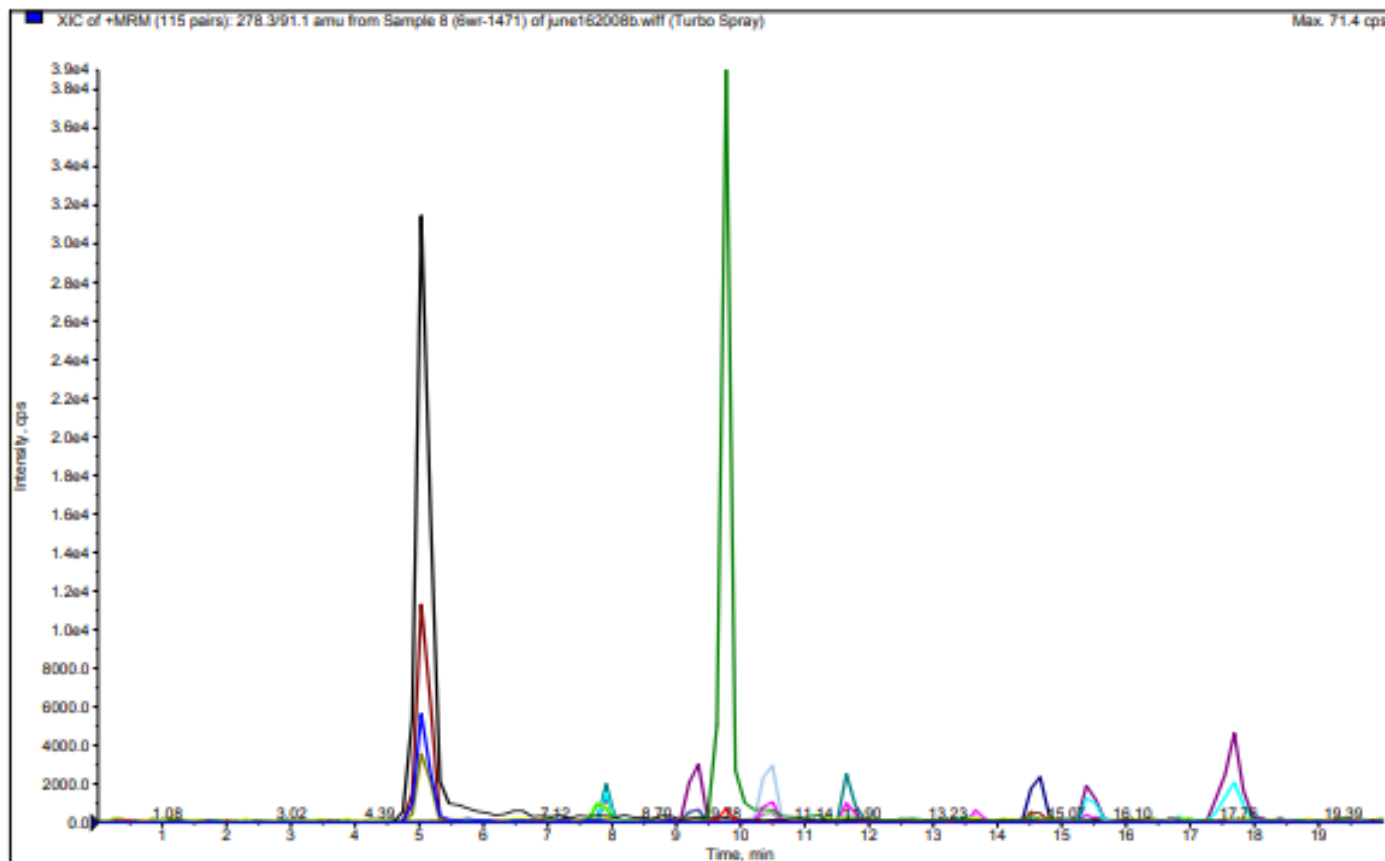
Column	100 x 2.1 mm (3 µm) Selectra® Phenyl (UCT, LLC)
Flow Rate	0.35 mL/minute
Injection Volume	5 µL
Column Temperature	ambient
Detector	API 2000 MS/MS

Mobile Phase

Time	Acetonitrile	0.1% Formic Acid ag
0	10	90
15	50	50
16	10	90
20	10	90



Compound	MRM Transition	Cerilliant #
Carisoprodol	261.2/ 176.1	C-077
Meprobamate	219.1/158.2	M-039
*Meprobamate-D7		M-131

CHROMATOGRAM OF: Meprobamate, Carisoprodol 10 ng/mL (L to R)

Recovery: > 90% (N=20)

LOD: 10 ng/ mL

DCN-909030-138

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