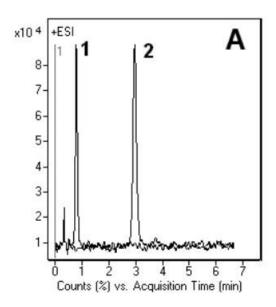


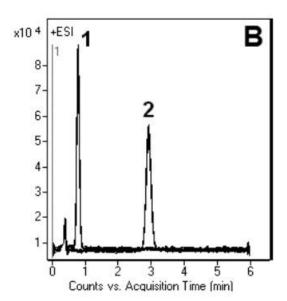
Carisoprodol & Meprobamate Analysis by LCMS - AppNote

Analysis of Closely Related Compounds

It has been reported that for the quantitation of Meprobamate and Carisoprodol, (in biological samples plasma, urine, hair etc.) by LCMS, excessive analysis time and complex sample treatment (derivatization, solid or liquid phase extraction) may be required.

The Method in this AppNote shows a rapid way to quantitate both drugs in these samples with a simple one-step protein precipitation with Acetonitrile. The [13C - 2H3] - Meprobamate is recommended to be used as internal standard. When a lower detection limit is required for the analysis, the use of LC-MS/MS is recommended.





- 1. Meprobamate
- 2. Carisoprodol

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Method Conditions

Column: Cogent Bidentate C18[™], 4µm, 100Å

Catalog No.: 40018-05P-2 **Dimensions:** 2.1 x 50mm

Mobile Phase:

A: DI Water / 0.1% Formic Acid B: Acetonitrile / 0.1% Formic Acid

Gradient:

Time (minutes)	%B
0	40
5	100
6	40

Flow rate: 0.4mL / minute

Detection: ESI — POS - Agilent 6210 MSD TOF Mass Spectrometer

Injection vol.: 1µL
Sample Preparation:

A: 300ng / mL prepared in methanol

B: Urine extract, actual samples

to: 0.4 minutes

Note: Meprobamate is a carbamate used as a sedative drug since the 50's. It is also the main active metabolite of Carisoprodol, a skeletal muscle relaxant. Meprobamate is still widely prescribed, however it can be toxic which under some circumstances can lead to death. It is very often involved in accidental or suicidal overdoses. For all these reasons identification and quantification of both drugs is very important in toxicology. Carisoprodol is manufactured and marketed in the United States under the brand name SOMA not to be confused with the fictional drug mentioned in Brave New World by Aldous Huxley.



Attachment

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