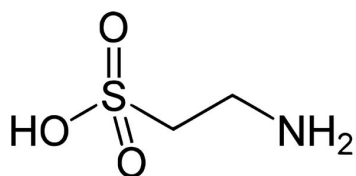
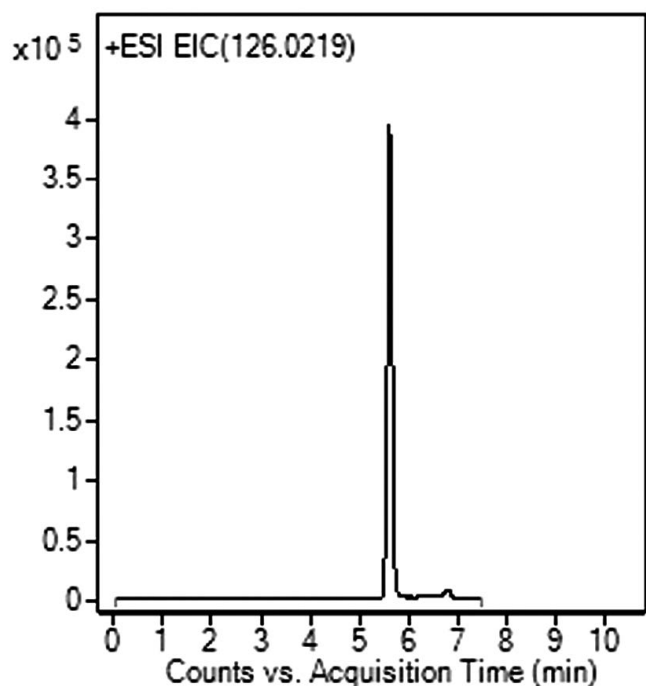


Taurine Analyzed with LCMS – AppNote

Retention of a Polar, Sulfonate Compound

As a highly polar compound, Taurine is often difficult to retain by Reversed Phase Chromatography. The Peak Shape and Retention obtained with this Aqueous Normal Phase (ANP) LCMS Method is greatly improved and is suitable as a starting point for further analyses of Taurine, in a variety of Samples such as beverages or even biological matrices.



Peak:

Taurine, m/z 126.0219 [M+H]⁺

Method Conditions

Column: Cogent Diamond Hydride™, 4μm, 100Å

Catalog No.: 70000-15P-2

Dimensions: 2.1 x 150mm

Mobile Phase:

A: DI Water with 0.1% Formic Acid (v/v)

B: Acetonitrile with 0.1% Formic Acid (v/v)

Gradient:

Time (minutes)	%B
0	95

1	95
6	30
7	30
8	95

Post Time: 3 minutes (3.3 column volumes)

Injection vol.: 2µL

Flow rate: 0.4mL / minute

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

Sample Preparation: 10mg / L of Taurine reference standard was added to a diluent of 50:50 Solvent A / Solvent B.

t₀: 0.9 minutes

Note: Taurine is added to many popular energy drinks. It is found naturally in animal tissues and is a major constituent of bile.



Attachment

No 251 Taurine Analyzed with LCMS pdf 0.3 Mb [Download File](#)

Printed from the Chrom Resource Center

MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

Date: 02-05-2024