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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.

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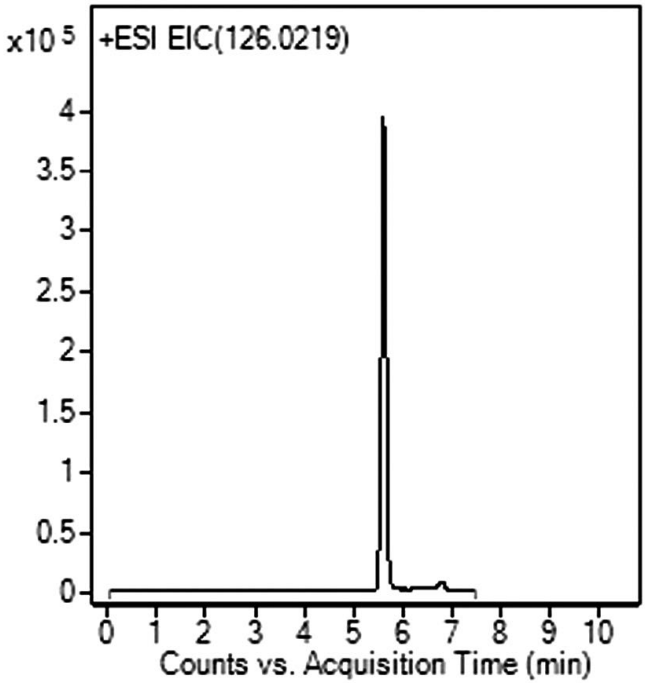

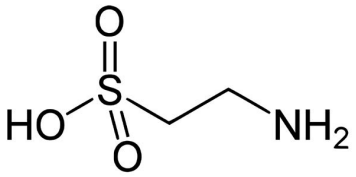

Peak:

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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

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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.
t_0: 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.*

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Attachment

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