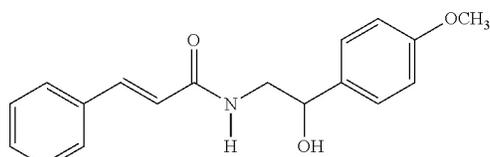
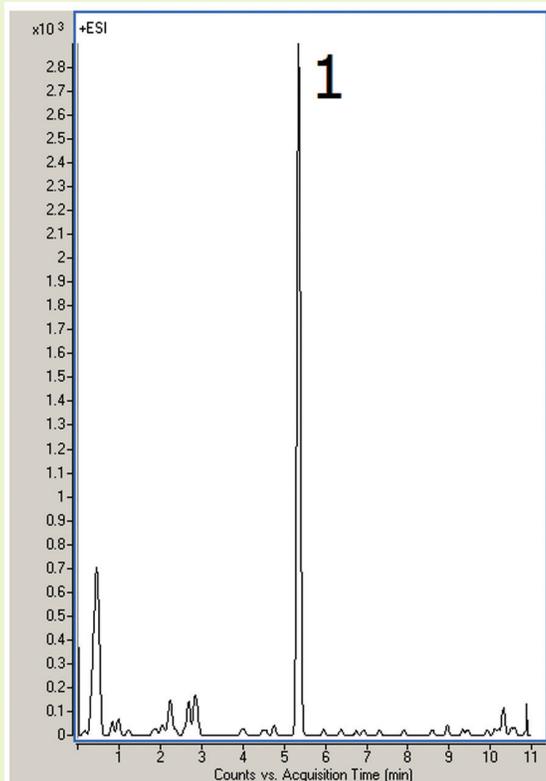


Aegeline in Protein Sport Mix

LC-MS analysis of harmful substance in food supplement



Aegeline

Note: Aegeline is an alkaloid extracted from *Aegle marmelos* (bael), a plant that has been used in traditional medicines. It is also synthesized and has been added to some food supplements such as OxyElite Pro®. Although it is claimed to have weight-loss effects, its safety has not been thoroughly evaluated in humans and has even been implicated in instances of acute liver damage and non-viral hepatitis.

Method Conditions

Column: Cogent Bidentate C18 2.0™, 2.2µm, 120Å

Catalog No.: 40218-05P-2

Dimensions: 2.1 x 50 mm

Solvents: A: DI H₂O / 0.1% formic acid

B: Acetonitrile / 0.1% formic acid

Gradient:	time (min.)	%B
	0	20
	6	90
	8	90
	10	20

Injection vol.: 1 microL

Flow rate: 0.4mL/min

Sample: Two scoops (2.9456g) protein powder mix were dissolved in 50.00 mL DI water in beaker. A portion was filtered (0.45 µm, nylon) and 400 µL filtrate was mixed with 400 µL acetonitrile. The solution was centrifuged and the supernatant was collected and used for LC-MS injections.

Detection: ESI - POS - Agilent 6210 MSD TOF mass spectrometer

Peaks: 1. Aegeline 298.1438 m/z [M + H]⁺

Discussion

The data demonstrates the use of the Cogent Bidentate C18 2.0 column for analysis of dietary supplement samples. Isolation of the aegeline peak is readily obtained with an extracted ion chromatogram (EIC) in the positive ion mode. Chromatographically, the peak is well retained and highly symmetrical. The column is an excellent choice for analysis of this controversial compound in dietary supplements such as these.