



Histamine in Red Wine Analyzed with LCMS – AppNote

Demonstrating Low Histamine Content in Red Wine Samples

Two Red Wine samples were tested for Histamine using the Cogent Diamond Hydride Column in an LCMS method. The wine shown in Figure B was claimed to have virtually no Histamine but had no analytical evidence to support it. The claim was verified using this simple LCMS Method that produces an excellent Histamine Meak.

The other wine in Figure C had to be diluted 5x, and even still the Histamine Peak was much larger than in Figure B.

The data shows that there are significant quantitative differences in the Histamine content of various wines. Observing these differences is made possible using the Cogent Diamond Hydride Column.

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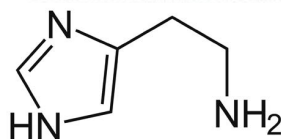
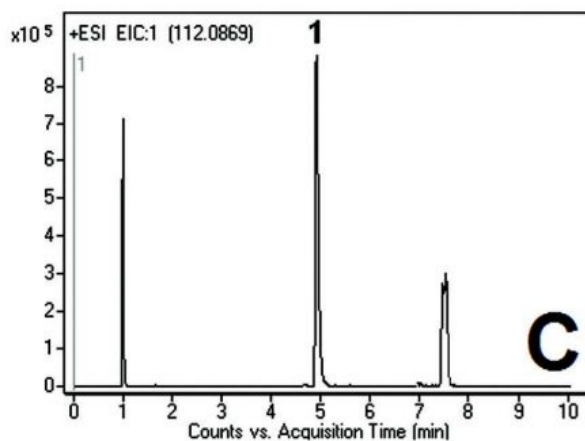
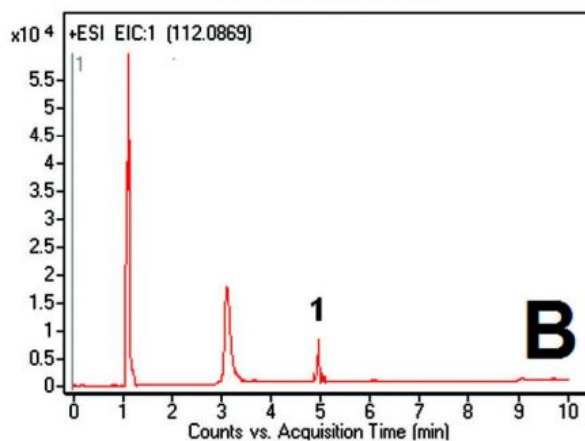
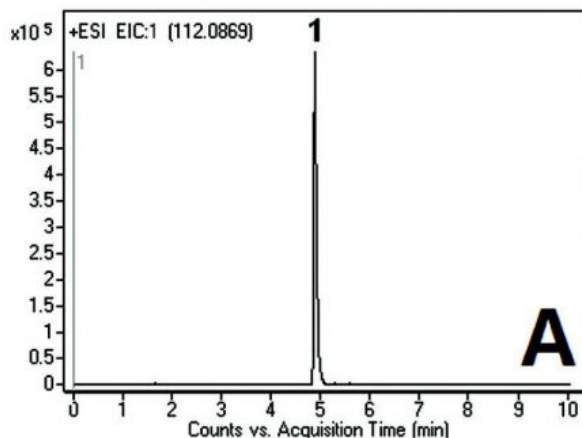
MicroSolv Technology Corporation

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Histamine

Peak:

Histamine 112.0869 m/z

Method Conditions

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

Catalog No.: 70000-15P-2

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Dimensions: 2.1 x 150mm

Mobile Phase:

A: DI Water / 0.1% Formic Acid

B: Acetonitrile / 0.1% Formic Acid

Gradient:

Time (minutes)	%B
0	80
5	10
7	10
8	80

Post Time: 5 minutes

Injection vol.: 1µL

Flow rate: 0.4mL / minute

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

Sample Preparation:

Fig. A: Histamine Standard

Fig. B: "Low Histamine" Red Wine. Sample was filtered with 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.)

Fig. C: "Regular" Red Wine. In addition to filtering, Sample was diluted 1:5 due to strong Histamine Peak.

t₀: 0.9 minutes



Attachment

No 231 Histamine in Red Wine Analyzed with LCMS pdf 0.4 Mb [Download File](#)

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