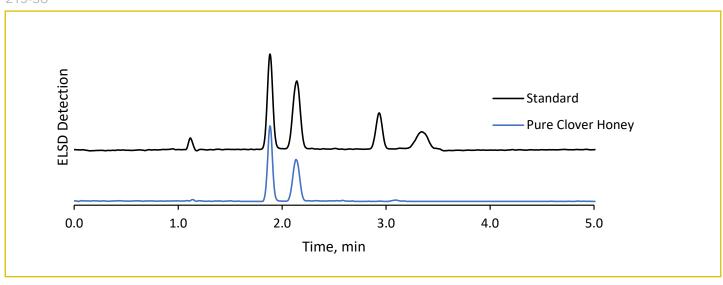


FOOD / BEVERAGE



Analysis of Sugars in Pure Honey using HALO® Penta-HILIC

215-SU



PEAK IDENTITIES:

- 1. D-(-) Fructose
- 2. D-(+) Glucose
- 3. Sucrose
- 4. D-(+) Maltose

TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 μm,

4.6 x 150 mm

Part Number: 92814-705 Mobile Phase A: Water Mobile Phase B: Acetonitrile

Isocratic: 80% B

Flow Rate: 1.4 mL/min Initial Pressure: 213 bar Temperature: 65 °C

Detection: ELSD, 40 °C, 3.3 bar

Injection Volume: 15 µL

Sample Solvent: 80/20 ACN/ Water

Data Rate: 10 Hz

Response Time: 0.10 sec

LC System: Shimadzu Nexera X2

Honey can significantly range in quality depending on its purity and levels of sucrose and maltose. Natural honey primarily consists of fructose and glucose, while adulterated honey can contain high levels of sucrose and maltose.

A HALO® Penta-HILIC column separates the primary monosaccharides in pure honey clover showing no signs of adulteration.