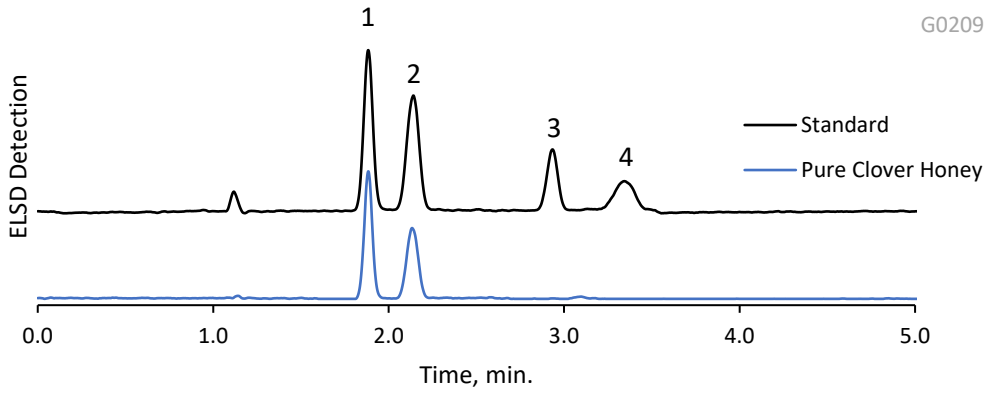
HALO® | Fused-Core® Particle Technology

Application Note: 215-SU

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



PEAK IDENTITIES:

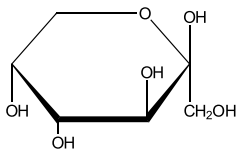
1. D-(-) Fructose
2. D-(+) Glucose
3. Sucrose
4. D-(+) Maltose

TEST CONDITIONS:

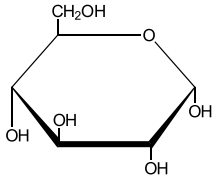
Column: HALO 90 Å Penta-HILIC, 2.7 µm, 4.6 x 150 mm
Part Number: 92814-705
Mobile Phase A: Water
Mobile Phase B: Acetonitrile
Isocratic: 80% B
Flow Rate: 1.4 mL/min
Initial Pressure: 213 bar
Temperature: 65 °C
Detection: ELSD, 40 °C, 3.3 bar
Injection Volume: 15 µL
Sample Solvent: 80/20 ACN/ Water
Data 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.

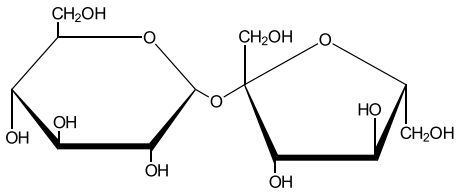
STRUCTURES:



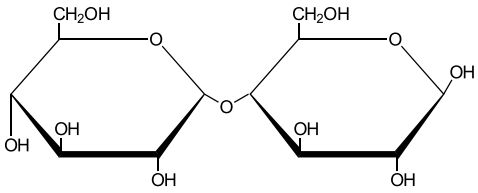
D-(-) Fructose



D-(+) Glucose



Sucrose



D-(+) Maltose

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