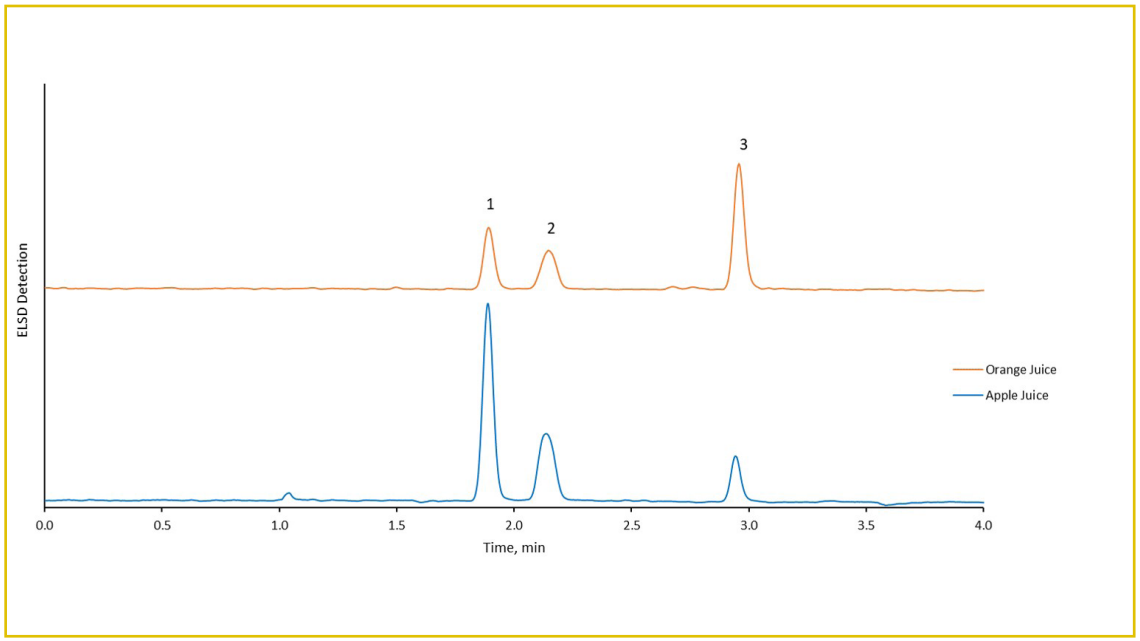
HALO®

FOOD / BEVERAGE

Analysis of Sugars in Juice using HALO® Penta HILIC

227-F



TEST CONDITIONS:

Column: HALO 90 Å Penta-HILIC, 2.7 µm, 4.6 x 150 mm
Part Number: 92814-705
Mobile Phase A: Water
B: Acetonitrile
Isocractic: 80 % B
Flow Rate: 1.4 mL/min
Pressure: 213 bar
Temperature: 65 °C
Detection: ELSD, 40°C, 3.3 bar
Injection Volume: 0.2 µL
Sample Solvent: Water
Data Rate: 10 Hz
Response Time: 0.10 sec
Flow Cell: 1 µL
LC System: Shimadzu Nexera

PEAK IDENTITIES

1. Fructose
2. Glucose
3. Sucrose

The main sugars in natural fruit juice are fructose, glucose, and sucrose. Each type of juice will contain different ratios of these sugars. Juices obtained from concentrate can also be found to have various amounts of artificial sweeteners. Analysis of sugars is performed on a HALO® Penta-HILIC column with excellent speed and resolution. A comparison of the different sugars in apple juice and orange juice is observed using an ELSD detector.

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