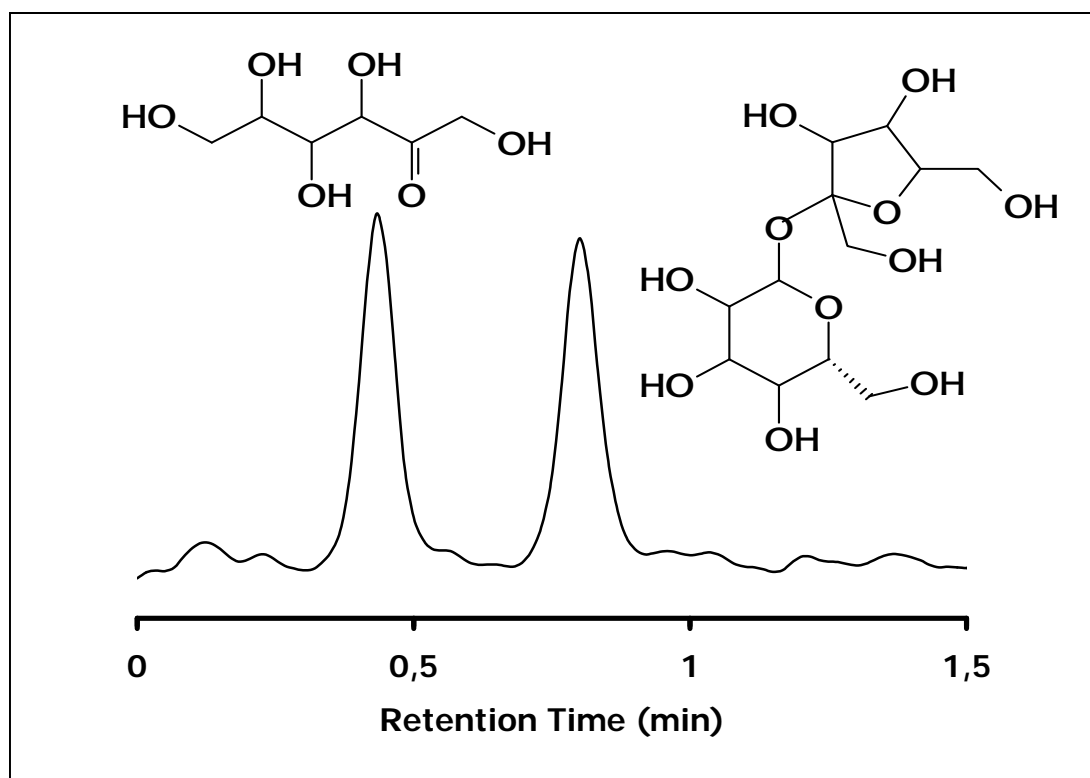


## ZIC® -HILIC Separation of Fructose and Sucrose

### Chromatographic Conditions

Column: ZIC®-HILIC, PEEK 20 x 2.1 mm, 3.5 µm, 100A (P/N 1.50439.0001)  
 Injection: 1 µL of a solution containing both analytes in mobile phase  
 Detection: Shimadzu LC-2010 Evolution, Detector voltage: 1.6 kV  
 Heat block temp: 200 °C; CDL temp: 200 °C; Scan range: m/z 150-450;  
 SIM mode: m/z 240 (Fructose) and 403 (Sucrose)  
 Flow Rate: 0.5 mL/min  
 Mobile Phase (v/v): 80%, Acetonitrile  
 20%, Ammonium Acetate 25 mM, pH 6.8  
 $I_{\text{tot}} = 5 \text{ mM}$   
 Temperature: ambient  
 Pressure Drop: 4.0 MPa (576 psi)



### Chromatographic Data

No.	Compound	Concentration (ppm)	Time (min)	Retention factor	Asymmetry
1	void volume ( $t_0$ )		0,1	-	-
2	Fructose	16.7	0,4	2,8	1,2
3	Sucrose	8.3	0,8	6,1	1,1