

Oligosaccharides

Determination of Oligosaccharides using Capillary Electrophoresis and Laser Induced Fluorescence Detection

Instruments:

Capillary Electrophoresis: Agilent CE.
Detector: Picometrics ZETALIF 2000 detector
Laser: Argon Ion laser 488 nm, 25 mW

Sample:

4 Oligosaccharides Standard solution, diluted in water

Reagents:

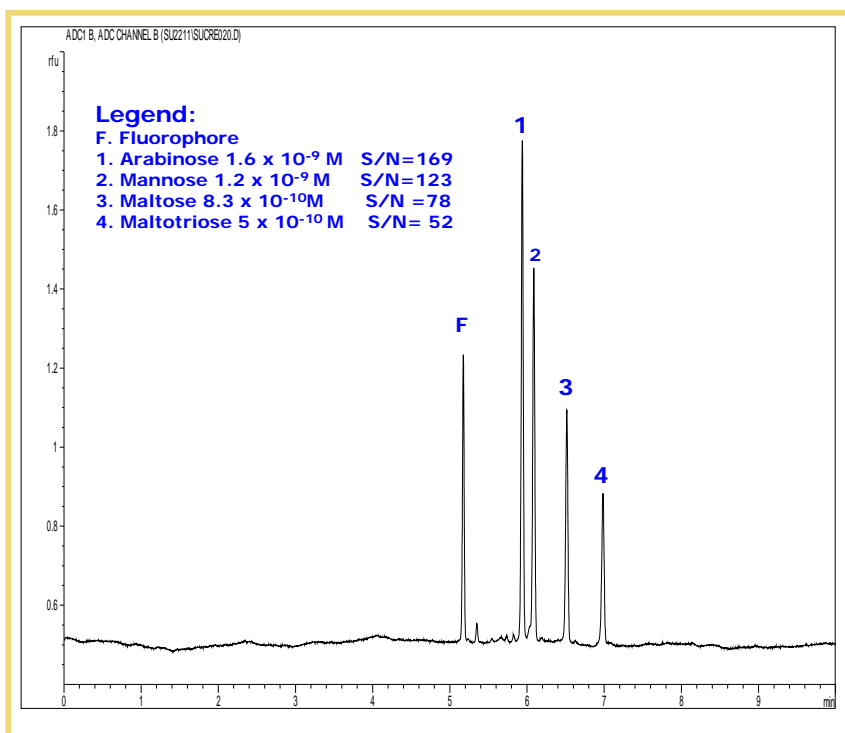
Derivatization agent: 1-aminopyrene-3,6,8-trisulfonate (APTS)

Methods:

Capillary: 75 µm ID, 70 cm length (56 cm effective length)
Buffer: 40 mM Phosphoric acid, 35 mM Triethylamine, pH=2,8
Voltage: 30 kV, 70 µA
Injection: 2 seconds at 50 mBar

Limit of Detection*:
 $3 \times 10^{-11} M$

* Estimated for a S/N of 3



Source: Picometrics application lab. 11/1999.