Technical Data Ref SPH/11

Separation of Sucrose from other Sugars

Sucrose may be completely resolved from other disaccharides and monosaccharides using an octadecyl silane bonded phase. The 12% carbon loading of Spherisorb S5 ODS2 gives optimal separation of the sugars in this eluent system.

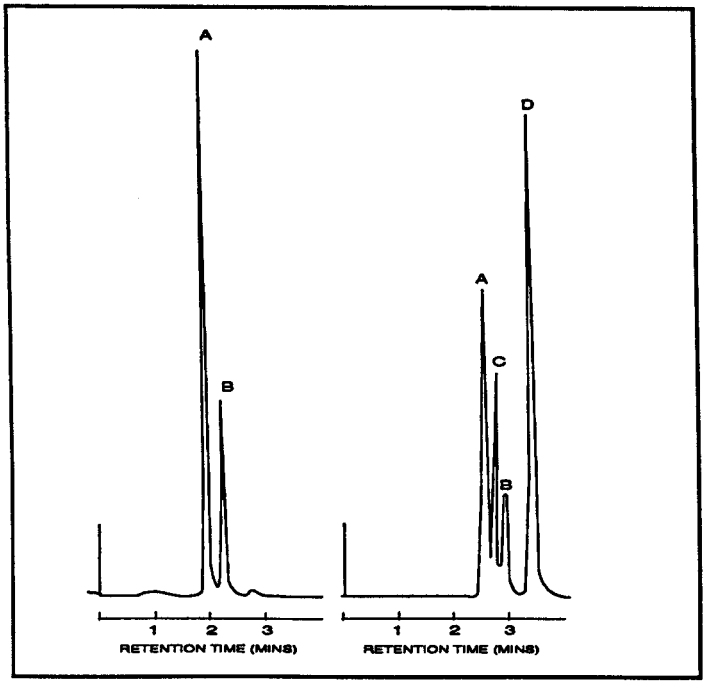
This is suitable for the separation of oligosaccharides by saccharide number but for separation of closely related mono and disaccharides the use of an aminopropyl silica is to be recommended, e.g. Spherisorb S5 NH_2 Amino - see REF SPH/5

Column: Spherisorb S5 ODS2, 25cm x 4.6mm
Catalogue Number: 831915
Flow: 1.25ml/min
Detn: RI (x100)
Eluent: HPLC Grade Water
Sample: Glucose and Di-saccharide Standards
Injection: 20µl

Peak Identification

A Glucose (Dextrose)
B Maltose
C Lactose
D Sucrose

Separation of Sucrose from Glucose and Di-saccharide Standards



Peak Identification

1 Fructose
2 Maltose
3 Sucrose
4 Panose
5 Stachyose
6 Raffinose

Separation of Sucrose from Mono and Di-saccharides