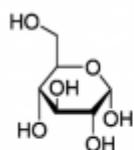
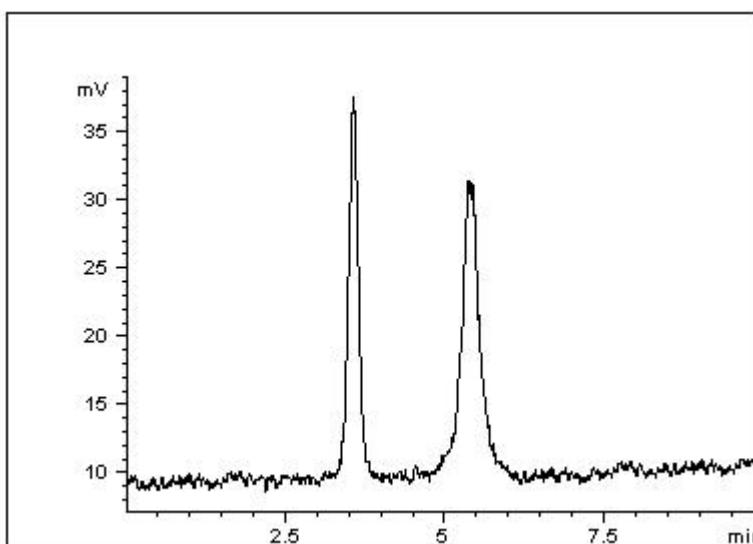




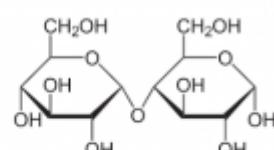
## Galactose and Maltose Analyzed with ELSD – AppNote

### Retention and Separation of Mono and Disaccharides

This Method demonstrates the ability to retain two highly polar test solutes. Maltose, for example, has a log P of -4.7 and would be difficult to retain in Reversed Phase. Great separation is observed for these Mono and Disaccharides.



1



2

### Peaks:

1. D-Galactose
2. Maltose

### Method Conditions

**Column:** Cogent Amide™, 4µm, 100Å

**Catalog No.:** [40036-10P](#)

**Dimensions:** 4.6 x 100mm

**Mobile Phase:** 85% Acetonitrile 15% DI Water / 0.1% Triethylamine (TEA) (v/v)

**Flow rate:** 1.0 mL/minute

**Detection:** ELSD (Evaporative Light Scattering Detector) Gain: 10; Temperature: 65°C;

**Injection vol.:** 1µL

**Sample Preparation:** Reference standards (1 mg/mL) in diluent of 50% Acetonitrile / 50% DI Water (v/v)

**t<sub>0</sub>:** 1.50 Minutes

**K<sub>1</sub>:** 1.33

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**Note:** Galactose is a monosaccharide and Maltose is a disaccharide. Maltose is the disaccharide produced when amylase breaks down starch.

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**Note:** Capacity Factor - Relative Retention  $k = (tR-t0)/t0$

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