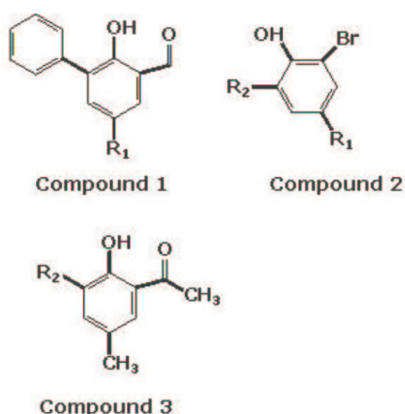
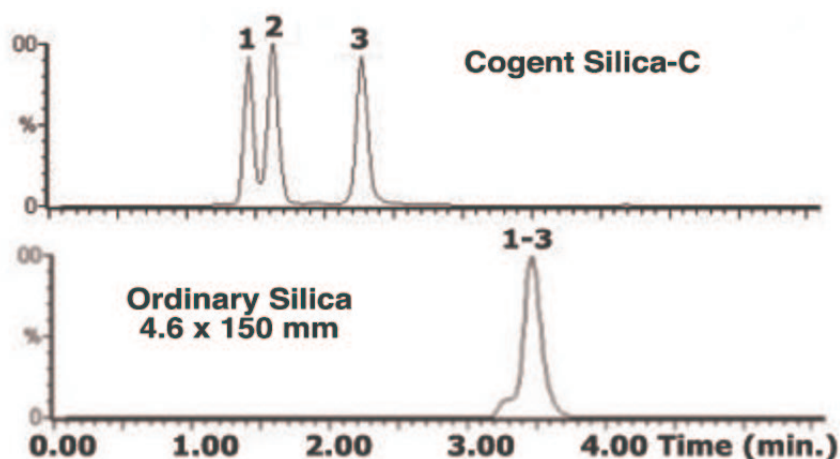


## Phenolic compounds analyzed and separated with normal phase HPLC - AppNote

### Cogent Silica-C™ compared to standard silica in normal phase HPLC

The Cogent Silica-C™ column was compared with a different brand and type of silica column for separation of three proprietary, large, substituted phenol compounds using normal phase HPLC .

The Cogent Silica-C™ column provided satisfactory selectivity under isocratic elution conditions. The column displayed typical normal phase elution for the phenols, i.e. retention increased as the amount of the least polar component in the mobile phase increased. In addition, the separation, is extremely reproducible (%RSD 0.2) even though the solvents were not dried in any special way. This makes normal phase HPLC much easier to perform.



#### Peaks:

1. Phenolic with Aldehyde
2. Parent Phenolic Compound
3. Phenolic with a Ketone

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### Method Conditions

**Column:** Cogent Silica-C™, 4µm, 100Å

**Catalog No.:** 40000-75P

**Dimensions:** 4.6 x 75mm

**Mobile Phase:** 95:5 Hexane / Ethyl Acetate

**Injection vol.:** 1µL

**Flow rate:** 1mL / minute

**Detection:** UV with a Diode Array

**Sample:** 1mg / mL of proprietary compounds dissolved in the Mobile Phase: Phenolic Compound with an Aldehyde group, Parent Phenolic Compound, Phenolic with a Ketone group were dissolved in the Mobile Phase

**Notes:** *With the Cogent Silica-C™ column, almost all of the Silanols on the Silica surface are substituted with Si-H and water is not strongly associated by the stationary phase. Drying of the Mobile Phase Solvents is not essential and subsequent analyses are very reproducible, day to day as well as run to run. The identity of the Peaks was confirmed using Atmospheric Pressure Chemical Ionization in the positive and negative mode: APCI+, APCIAPP.*



## Attachment

**Phenolic compounds analyzed with normal phase HPLC pdf** [Download File](#)

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