

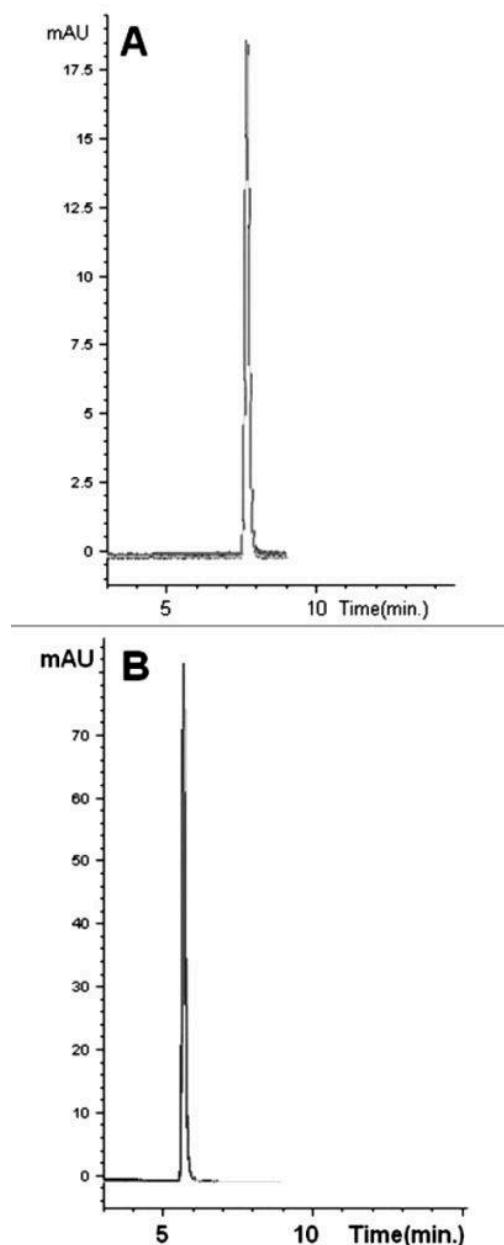


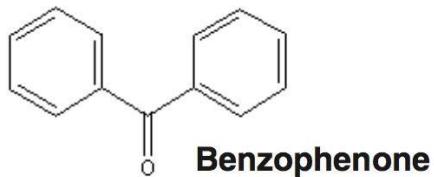
Benzophenone Analyzed with HPLC - AppNote

Isocratic Method Retains Benzophenone with Efficiency and Precision

Benzophenone, a hydrophobic non ionic compound, was selected to illustrate the excellent Reversed Phase HPLC capabilities of this Cogent TYPE-C Silica Hydride Stationary Phase.

The Reproducibility, Efficiency and Peak Symmetry of this Method is excellent, as presented in each figure below, which represents ten consecutive injections with two different Mobile Phases. When the percent of Acetonitrile increases (from 70% in Solution A to 80% in Solvent B) the Retention Time of Benzophenone decreases.





Method Conditions

Column: Cogent Bidentate C18™, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75mm

Mobile Phase:

A: 70:30 Acetonitrile / DI Water

B: 80:20 Acetonitrile / DI Water

Injection vol.: 1µL

Flow rate: 0.5mL / minute

Detection: UV @ 254nm

Sample Preparation: Benzophenone, 0.1mg in the A and B Mobile Phases.

Note: Benzophenone has a role as a photosensitizing agent and a plant metabolite, an additive in flavorings or perfumes for "sweet-woody-geranium-like notes, extensively as photo-physical probes to identify and map peptide–protein interactions. Benzophenone appears as white solid with a flowery odor. May float or sink in water.



Attachment No 41 Benzophenone Analyzed with HPLC pdf 0.2 Mb [Download File](#)

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