

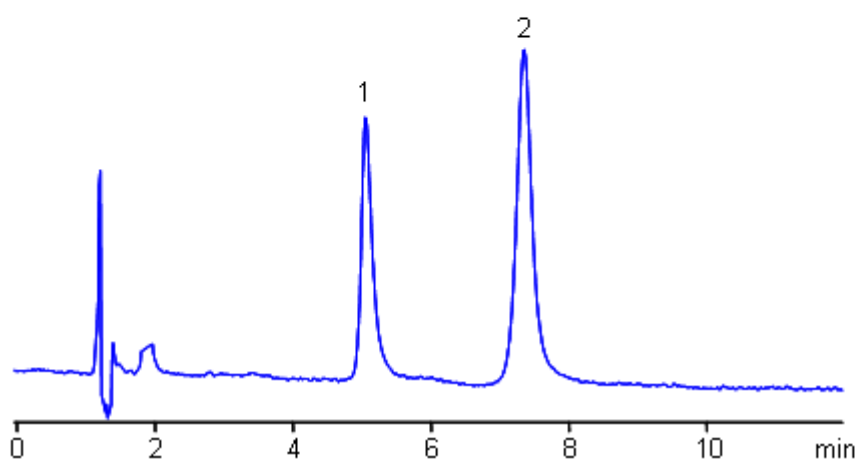
Separation of Benzoic and Acetylbenzoic acid in Hydrogen-Bonding Mode

<https://sielc.com/Separation%20of%20Benzoic%20and%20Acetylbenzoic%20acid%20in%20Application-Hydrogen-Bonding-Mode>

Chromatogram

Column: SHARC 1
Size: 3.2 x 100 mm
Mobile phase: MeCN /MeOH 95/5 with 10 mM Ammonia
Flow: 0.5 mL/min
Detection: UV 250 nm

1. Benzoic acid
2. 4-Acetylbenzoic acid



Description

A general approach for analysis of various organic acids with MS detection in negative mode was developed using hydrogen-bonding stationary phase – SHARC 1. A highly sensitive method allows to analyze traces of organic acids in various matrices using ACN/MeOH/ammonia mobile phase. In hydrogen-bonding chromatography acetonitrile is a weaker solvent and alcohol is a stronger solvent. Various gradient and isocratic conditions can be used

Method Parameters

Mobile Phase	MeCN/MeOH – 95/5%
Buffer	Ammonia 10mM
Flow Rate	005 ml/min
Detection	UV, 250 nm
Class of Compounds	Acid, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	Benzoic Acid, Acetylbenzoic acid

HPLC Column Used

Sharc 1, 3.2x100 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](#)