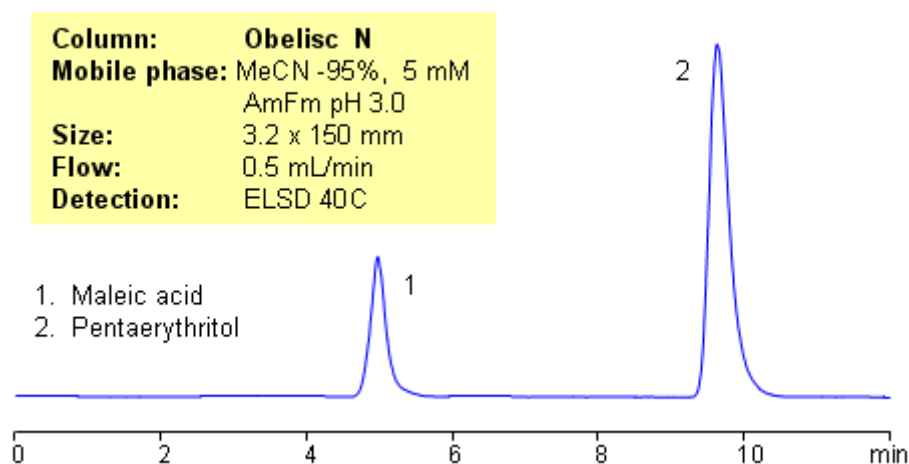


HPLC Separation of Maleic Acid and Pentaerythritol

<https://sielc.com/Application-HPLC-Separation-of-Maleic-Acid-and-Pentaerythritol>

Chromatogram



Description

Application Notes: Maleic acid is a small hydrophilic acid, which is poorly retained in reversed-phase chromatography. Pentaerythritol is hydrophilic neutral molecule. A mixed-mode HILIC/anion-exchange method was developed on Obelisc N HPLC column. The retention time for maleic acid can be controlled by amount of ACN, buffer pH, and buffer concentration. Pentaerythritol retention time is only controlled by the amount of acetonitrile. The method is LC/MS and ELSD compatible. Application Columns: Obelisc N Application compounds: Maleic Acid, Pentaerythritol Detection technique: LC/MS, ELSD/CAD

Method Parameters

Mobile Phase	MeCN/H ₂ O – 95/5%
Buffer	AmFm pH 3.0- 5 mM
Flow Rate	0.5 ml/min
Detection	ELSD
Class of Compounds	Acid, Hydrophilic, Ionizable
Analyzing Compounds	Maleic Acid, Pentaerythritol

HPLC Column Used

Obelisc N, 3.2×150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](https://hplc-shop.de)