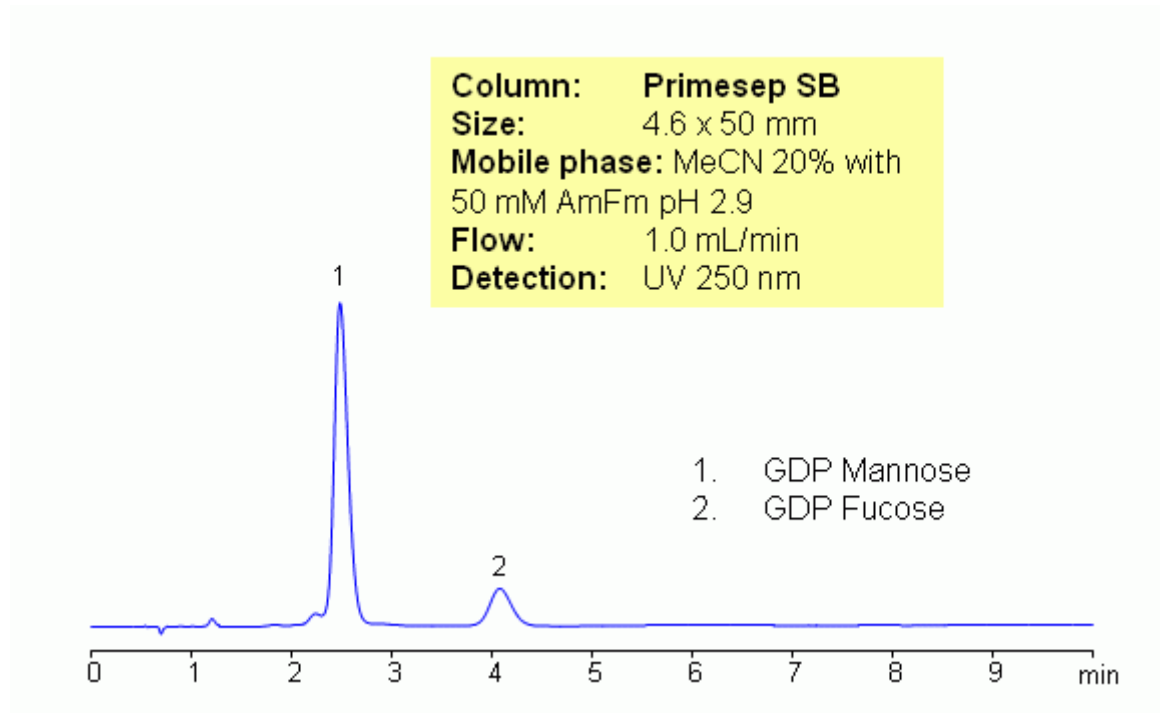


Separation of Guanosine Diphosphate Mannose and Guanosine Diphosphate Fucose in Mixed-Mode Chromatography

<https://sielc.com/Application-Separation-of-Guanosine-Diphosphate-Mannose-and-Guanosine-Diphosphate-Fucose-in-Mixed-Mode-Chromatography>

Chromatogram



Description

· Separation type: Liquid Chromatography Mixed-mode

High Performance Liquid Chromatography (HPLC) Method for Analysis of Guanosine Diphosphate Mannose and Guanosine Diphosphate Fucose. Two nucleotides containing different sugar fragments were separated on Primesep SB mixed-mode HPLC column using LC/MS compatible conditions. Method can be used for analysis and isolation of guanosine diphosphate mannose and guanosine diphosphate fucose. Mechanism of retention is weak reversed-phase and strong anion-exchange. Retention is controlled by buffer concentration and buffer pH. Both compounds exhibit strong interaction providing good retention and separation.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	AmFm pH 2.9- 50 mM
Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Hydrophilic, Ionizable, Nucleotide sugar
Analyzing Compounds	Diphosphate Mannose, Guanosine Diphosphate Fucose

HPLC Column Used

Primesep SB, 4.6x50 mm, 5 µm, 100A

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