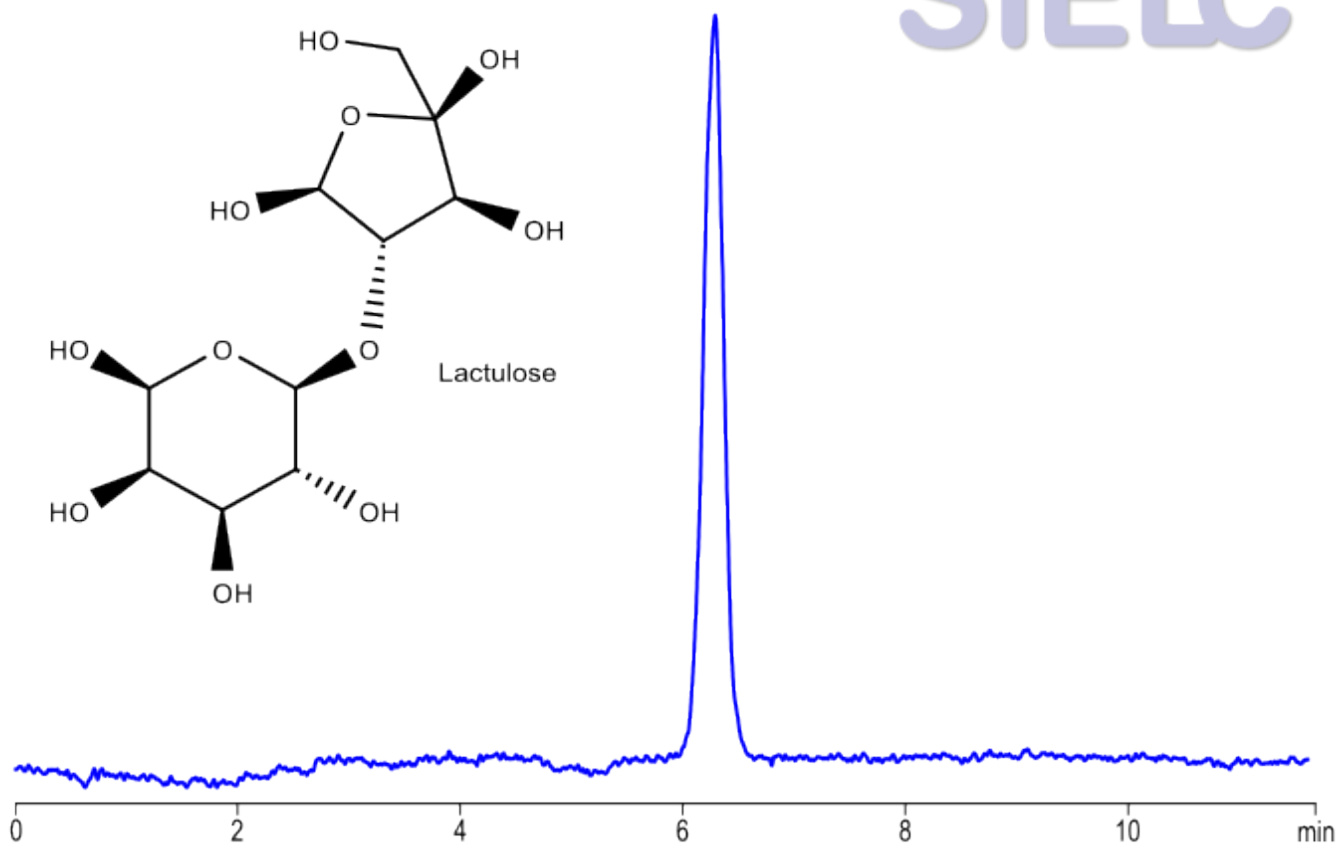
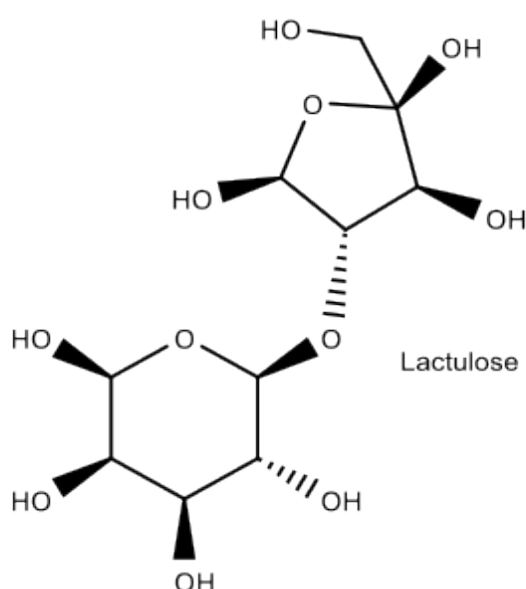


HPLC Method for Analysis of Lactulose on Primesep S2 Column

<https://sielc.com/hplc-method-for-analysis-of-lactulose>

Chromatogram

siELC



Column:	Primesep S2
Column size:	4.6 x 150 mm, 5 µm
Column part number:	S2 - 46.150.0510
Mobile phase:	MeCN/H ₂ O – 80/20%
Buffer:	Formic Acid – 0.2%
Flow rate:	1.0 mL/min
Sample:	0.5 mg/mL in H ₂ O. Then, Sample/MeCN 10/90%
Injection volume:	10 µm
Detection:	ELSD
LOD:	7.643 ppm

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Lactulose · Lactulose is an synthetic disaccharide with the molecular formula C₁₂ H₂₂ O₁₁ . · Properties: Appearance: Typically a white, odorless crystalline powder with a sweet taste. · Molecular weight: ~342.30 g/mol · Solubility: Soluble in water. · Uses: Used for treating constipation and hepatic encephalopathy (HE).

Lactulose can be retained and analyzed using the Primesep S2 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and formic acid. Detection is performed using

ELSD.

Method Parameters

Mobile Phase	MeCN – 80%
Buffer	Formic Acid – 0.2%
Flow Rate	1.0 ml/min
Detection	ELSD
LOD	7.643 ppm
Class of Compounds	Synthetic Disaccharide
Analyzing Compounds	Lactulose

HPLC Column Used

Primesep S2, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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