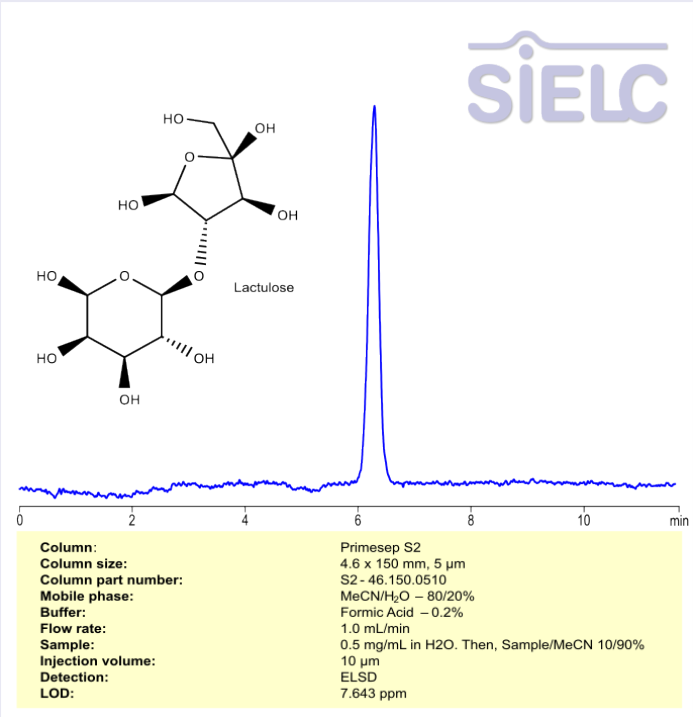
HPLC Method for Analysis of Lactulose on Primesep S2 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Lactulose

Lactulose is an synthetic disaccharide with the molecular formula C12H22O11 .

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

Column	Primesep S2, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 80%
Buffer	Formic Acid – 0.2%
Flow Rate	1.0 mL/min
Detection	ELSD
Limit of Detection	7.643 ppm

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

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