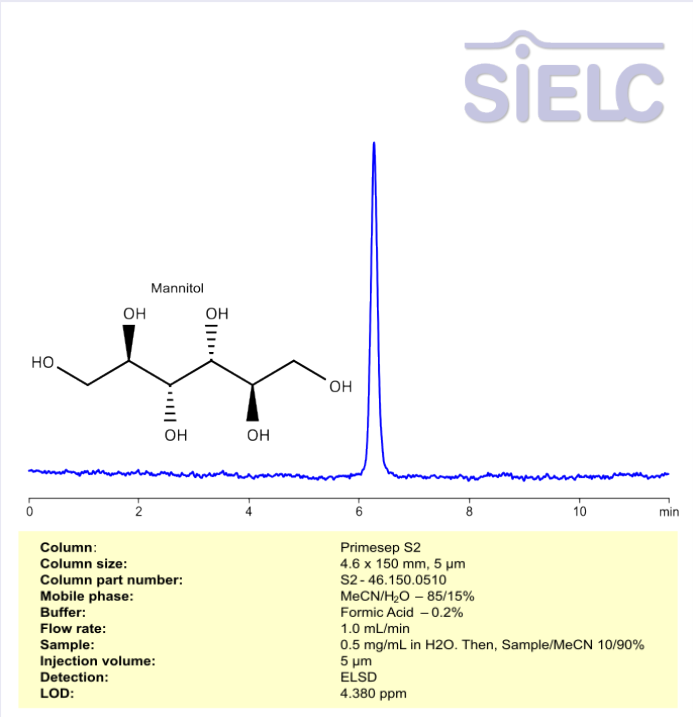
HPLC Method for Analysis of Mannitol on Primesep S2 Column



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

Mannitol is an organic compound with the molecular formula C6H14O6 .

Properties: Appearance: Typically a white, odorless, crystalline powder or granules.

Molecular weight: ~182.17 g/mol

Solubility: Soluble in water.

Uses: A versatile medication with various uses in healthcare, primarily as an osmotic diuretic.

Mannitol 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 – 85%
Buffer	Formic Acid – 0.2%
Flow Rate	1.0 mL/min
Detection	ELSD
Limit of Detection	4.380 ppm

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