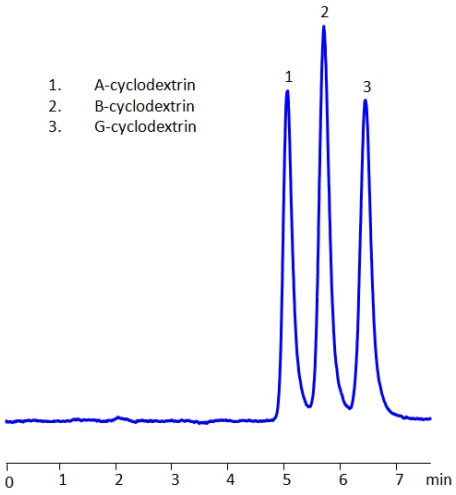
HPLC Method For Analysis of Cyclodextrins on Primesep S2



Column:	Primesep S2
Column part number:	S2-46.150.0510
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/H_2O – 70/30%
Buffer:	AmFm pH 3.0 - 20mM
Flow rate:	1.0 mL/min
Detection:	ELSD, 40C

High Performance Liquid Chromatography (HPLC) Method for Analysis of B-Cyclodextrin, G-Cyclodextrin and A-Cyclodextrin

Cyclodextrins are hexasaccharides that are natural starch-conversion products. Industrially, they are manufactured by enzymatic degradation of vegetable raw materials.

Alpha-cyclodextrin has the chemical formula C36H60O30 . It is said to lower blood pressure, cholesterol, and glucose levels. It is primarily used as a dietary supplement for fiber.

Beta-cyclodextrin has the chemical formula C42H70O35 . It is used in a large variety of industries primarily as a complexing agent. It’s most notable uses are in medicine as sustained release drugs carrier and to improve stability in drugs.

Gamma-cyclodextrin has the chemical formula C48H80O40 . It is used as a complexing agent due to having the largest cavity size between the natural cyclodextrin. It has use across a variety of industries from food, to medicine, to textiles, and cosmetics.

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Method Parameters

Column	Primesep S2, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN- 70%
Buffer	AmFm pH 3.0- 20 mm
Flow Rate	1.0 mL/min
Detection	ELSD

Quelle: https://sielc.com/hplc-method-for-analysis-of-cyclodextrins-on-primesep-s2