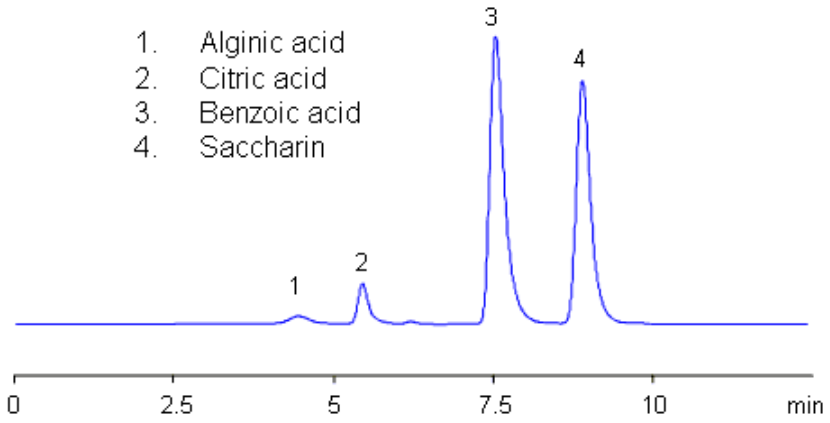
Separation of Alginic Acid and Related Products

Column:	**Primesep C**
Size:	4.6 x 150 mm
Mobile phase:	Na_2HPO_4 pH 6.5 -20 mM
Flow:	0.25 mL/min
Detection:	UV 210 nm



Alginate is used in various pharmaceutical preparations. Chemically, it is a linear copolymer with homopolymeric blocks of (1-4)-linked ?-D-mannuronate (M) and its C-5 epimer ?-L-guluronate (G) residues, respectively, covalently linked together in different sequences or blocks. Alginic acid can be separated from benzoate, citric acid and saccharin by mixed-mode chromatography on Primesep C HPLC column. This method can be used to quantitate alginic acid, citric acid or saccharin in complex mixtures. Various detection technique can be used (UV, ELSD, LC/MS), based on mobile phase selection.

Method Parameters

Column	Primesep C, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O
Buffer	Na2HPO4
Flow Rate	0.25 mL/min
Detection	UV, 210 nm

Quelle: https://sielc.com/Application-Separation-of-Alginic-Acid-and-Related-Products

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