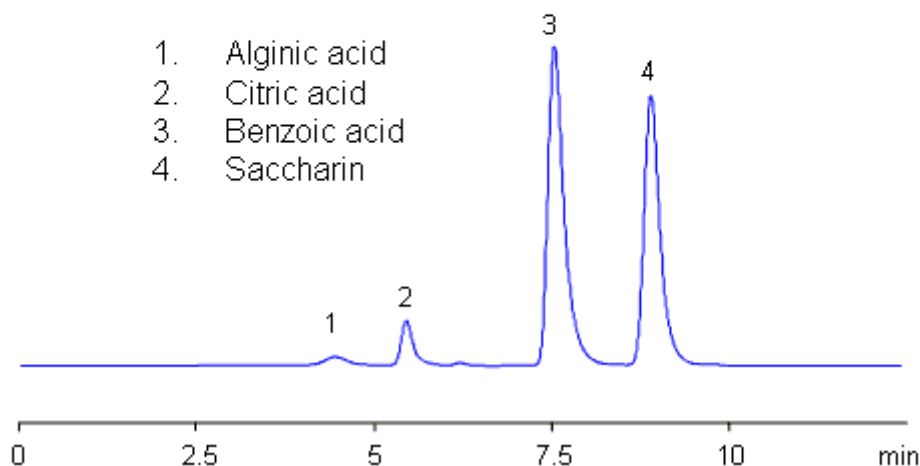


# Separation of Alginic Acid and Related Products

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

## Chromatogram

**Column:** Primesep C  
**Size:** 4.6 x 150 mm  
**Mobile phase:** Na<sub>2</sub>HPO<sub>4</sub> pH 6.5 -20 mM  
**Flow:** 0.25 mL/min  
**Detection:** UV 210 nm



## Description

Alginate is used in various pharmaceutical preparations. Chemically, it is a linear copolymer with homopolymeric blocks of (1-4)-linked  $\beta$ -D-mannuronate (M) and its C-5 epimer  $\beta$ -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

<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O
<b>Buffer</b>	Na <sub>2</sub> HPO <sub>4</sub>
<b>Flow Rate</b>	0.25 ml/min
<b>Detection</b>	UV, 210 nm
<b>Class of Compounds</b>	Acid, Hydrophilic, Ionizable
<b>Analyzing Compounds</b>	Alginic acid, Citric acid, Benzoic acid, Saccharin

## HPLC Column Used

**Primesep C, 4.6x150 mm, 5  $\mu$ m, 100A**

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