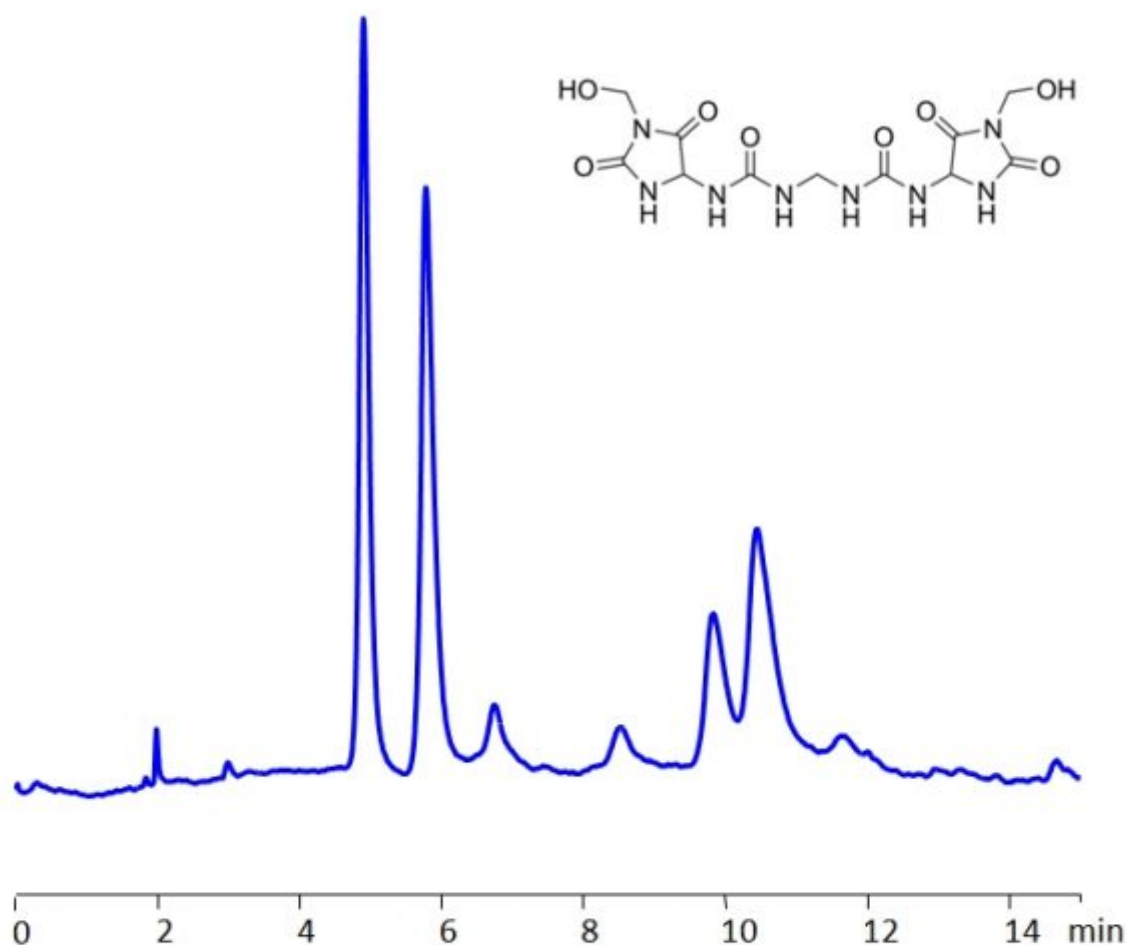


HPLC Determination of Imidazolidinyl urea on SHARC 1 Column

<https://sielc.com/hplc-determination-of-imidazolidinyl-urea-on-sharc-1>

Chromatogram



Column:	SHARC 1
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/MeOH –90/10%
Buffer:	No
Flow rate:	1 ml/min
UV detection:	210 nm

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Imidazolidinyl urea .

Imidazolidinyl urea is a preservative with the chemical formula C₁₁ H₁₆ N₈ O₈ . used in cosmetics as due to its antimicrobial properties. It is active against a broad spectrum of gram positive and gram negative bacteria, yeast and molds.

Imidazolidinyl urea can be retained in HPLC using a SHARC 1 column, which uses hydrogen-bonding as a separation mechanism. The isocratic method uses a mobile phase of acetonitrile (ACN) and water. Imidazolidinyl urea can be monitored by low UV (210 nm), ELSD, CAD or LC/MS.

Method Parameters

Mobile Phase	MeCN/MeOH – 90/10%
Buffer	No
Flow Rate	1.0 ml/min
Detection	UV 210 nm
Class of Compounds	Hydrophilic, Amide, Amine
Analyzing Compounds	Imidazolidinyl urea

HPLC Column Used

SHARC 1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)