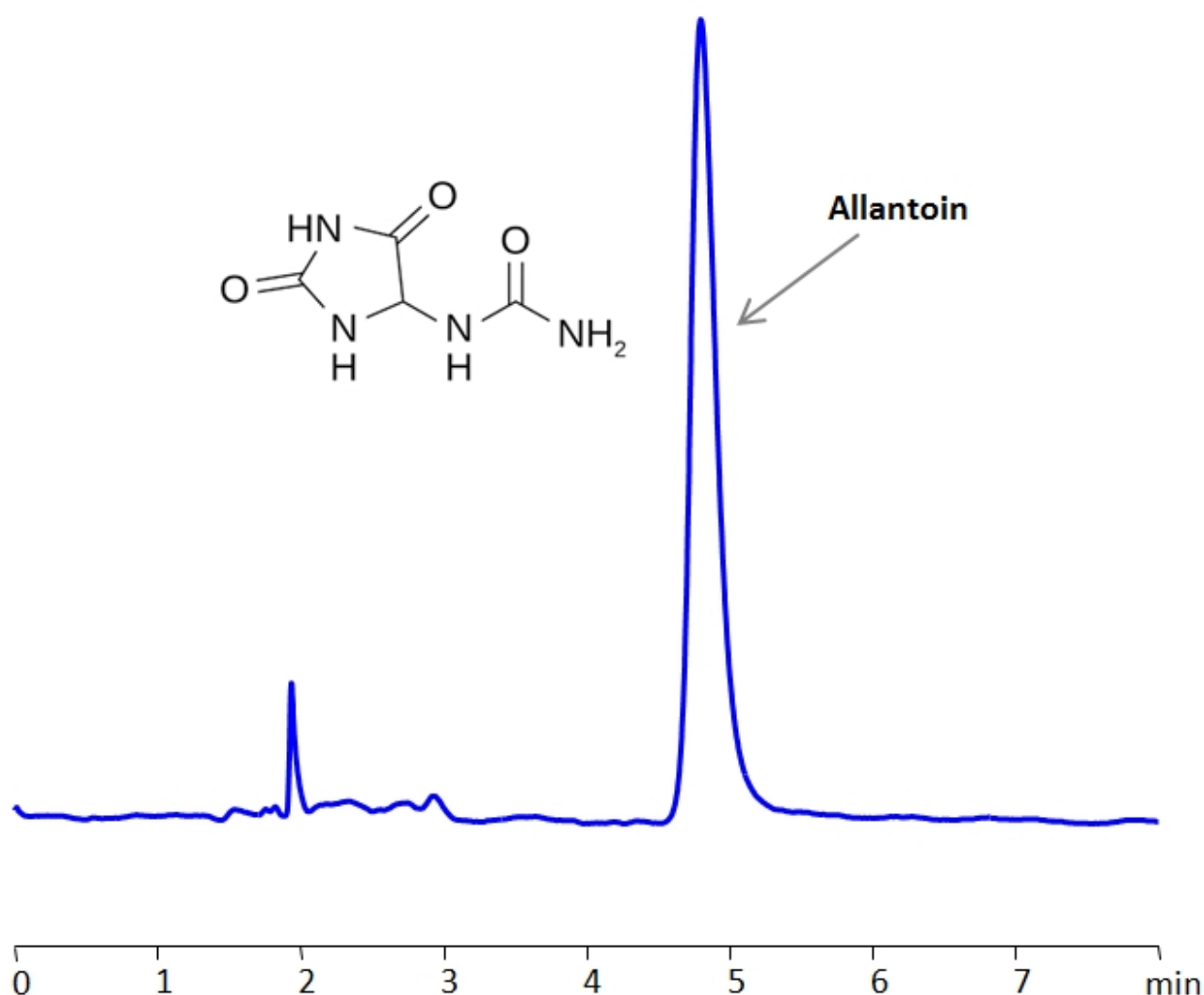


HPLC Determination of Allantoin on SHARC 1 Column

<https://sielc.com/hplc-determination-of-allantoin-on-sharc-1-column>

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 Allantoin .

Allantoin is a 5-ureidohydantoin or glyoxyldiureide with the chemical formula $C_4H_6N_4O_3$. It is a metabolic intermediate that is found in plants like chamomile, wheat sprouts, tobacco seed, sugar beet and comfrey. It is frequently used in cosmetics and hygiene products.

Allantoin can be retained using HPLC on SHARC 1 column, which uses hydrogen-bonding as a separation mechanism with isocratic method by using a mobile phase of acetonitrile (ACN) and methanol (MeOH). Allantoin 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	Allantoin

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)