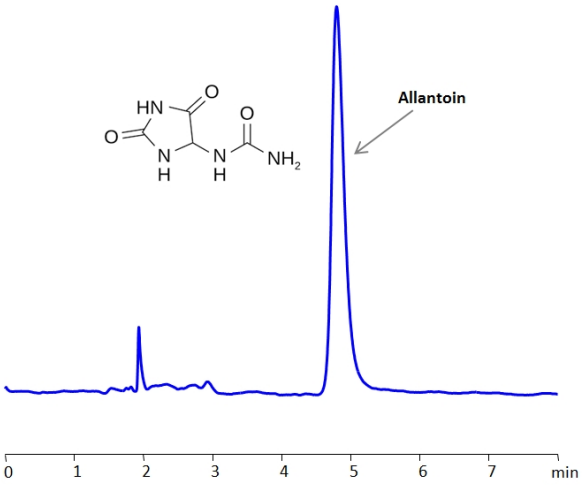
HPLC Determination of Allantoin on SHARC 1 Column



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

High Performance Liquid Chromatography (HPLC) Method for Analysis of Allantoin .

Allantoin is a 5-ureidohydantoin or glyoxyldiureide with the chemical formula C4H6N4O3 . It is s 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 SHARC1column, 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

Column	SHARC1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/MeOH – 90/10%
Buffer	No
Flow Rate	1.0 mL/min
Detection	UV 210 nm

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

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