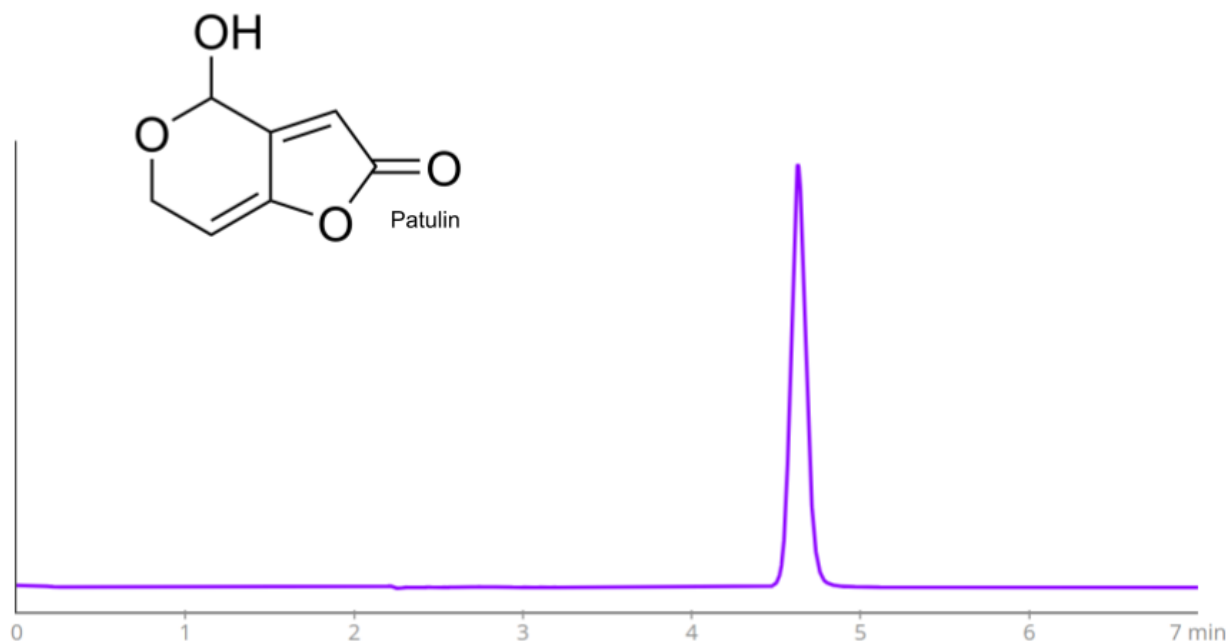


HPLC Method for Analysis of Patulin on Newcrom R1 Column on Alltesta™

<https://sielc.com/hplc-method-for-analysis-of-patulin-2>

Chromatogram

siELC



Column	Newcrom R1
Column Size	3.2 x 150 mm, 5µm
Part Number	NR1-32.150.0510
Mobile Phase	MeCN/H ₂ O - 10/90%
Buffer	H ₃ PO ₄ - 0.1%
Flow Rate	0.5 ml/min
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Patulin

Patulin is a fungi produced mycotoxin with the molecular formula C₇H₆O₄. It is lethal to rodents, as well as causing a myriad of health problems to other animals, including rats, mice, chickens, and hamsters. It is typically found on fruits and vegetables, especially apples. Extended exposure to patulin may potentially lead to tumor formation.

Patulin can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a ammonium formate buffer. Detection is performed

using UV.

Method Parameters

Mobile Phase	MeCN – 10%
Buffer	Phosphoric Acid
Flow Rate	0.5 ml/min
Detection	UV 275 nm
Class of Compounds	Mycotoxin
Analyzing Compounds	Patulin

HPLC Column Used

Newcrom R1, 3.2 x 150 mm, 5 µm, 100 A, dual ended

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