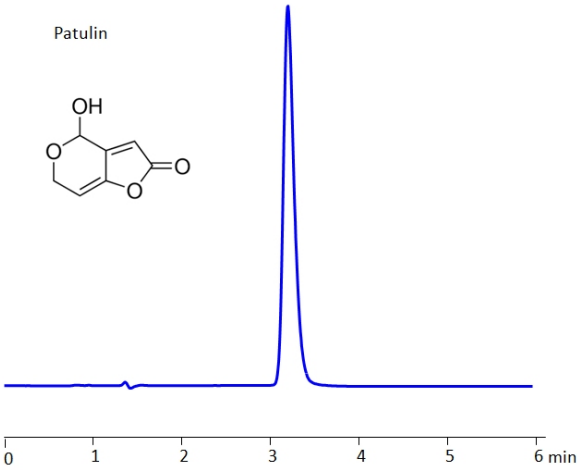
HPLC Method For Analysis Of Patulin on Newcrom R1 Column



Column:	Newcrom R1
Column size:	3.2 × 100 mm, 5 µm
Column part number:	NR1-32.100.0510
Mobile phase:	MeCN/H_2O – 10/90%
Buffer:	H_3PO_4 – 0.2%
Flow rate:	0.5 mL/min
UV Detection:	275 nm

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

Patulin is a toxic chemical contaminant produced by several species of mold, especially within Byssochlamys Aspergillus and Penicillium. It is the most common mycotoxin found in apples and apple-derived products such as juice, cider, compotes and other food intended for young children.

Patulin can be retained in HPLC on Newcrom R1 reverse-phase column with the simple isocratic mobile phase consisting of acetonitrile (MeCN, ACN), water and Phosphoric Acid (H3PO4) buffer. The analysis method can be UV detected at 275 nm.

Method Parameters

Column	Newcrom R1, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 10%
Buffer	H3PO4 – 0.2%
Flow Rate	0.5 mL/min
Detection	UV Detection
Limit of Detection	0.002 ppm

Quelle: https://sielc.com/hplc-method-for-analysis-of-patulin