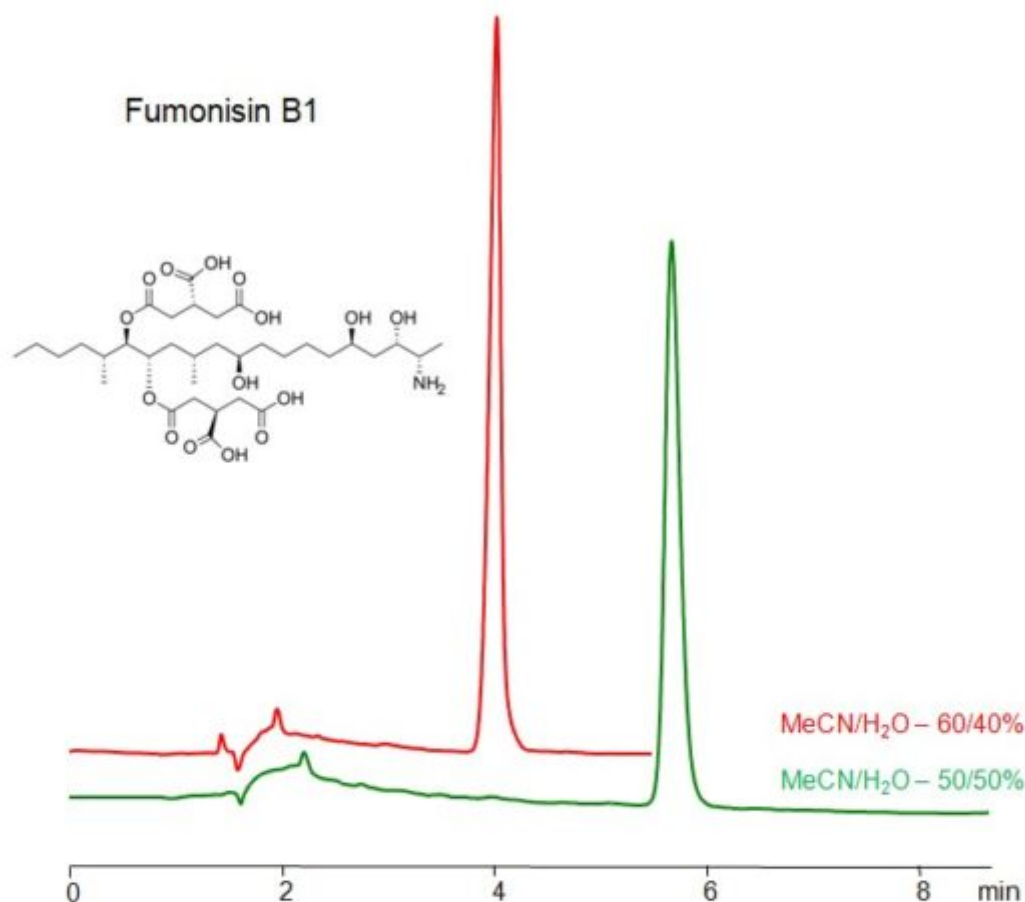


HPLC Method for Analysis of Fumonisin B1 on Primesep 100 Column

<https://sielc.com/hplc-method-for-analysis-of-fumonisin-b1>

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O
Buffer:	H ₂ SO ₄ – 0.1%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

Description

· HPLC Method for Analysis of Fumonisin b1 on Primesep 100 Column by SIELC Technologies

Fumonisin B1 is a mycotoxin with the chemical formula C₃₄H₅₉NO₁₅. It is produced by *Fusarium* molds, particularly *Fusarium verticillioides* and *Fusarium proliferatum*. These molds commonly infect corn and other crops, and through these, fumonisin B1 can enter the food chain. This toxin is found worldwide, and it's especially a concern in areas where corn is a staple food.

Fumonisin B1 is a notable mycotoxin due to its stability, widespread occurrence, and potential to cause harm to animals and humans. Monitoring and managing levels of this toxin in food products is essential to safeguard public and animal health.

You can find detailed UV spectra of Fumonisin b1 and information about its various lambda maxima by visiting the following link.

Fumonisin b1 can be retained, and analyzed on a Primesep 100 mixed-mode stationary phase column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and a sulfuric acid as a buffer. This analysis method can be detected using UV at 210 nm.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	H2SO4 -0.1%
Flow Rate	1.0 ml/min
Detection	UV 210 nm
Class of Compounds	Drug
Analyzing Compounds	Fumonisin b1

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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