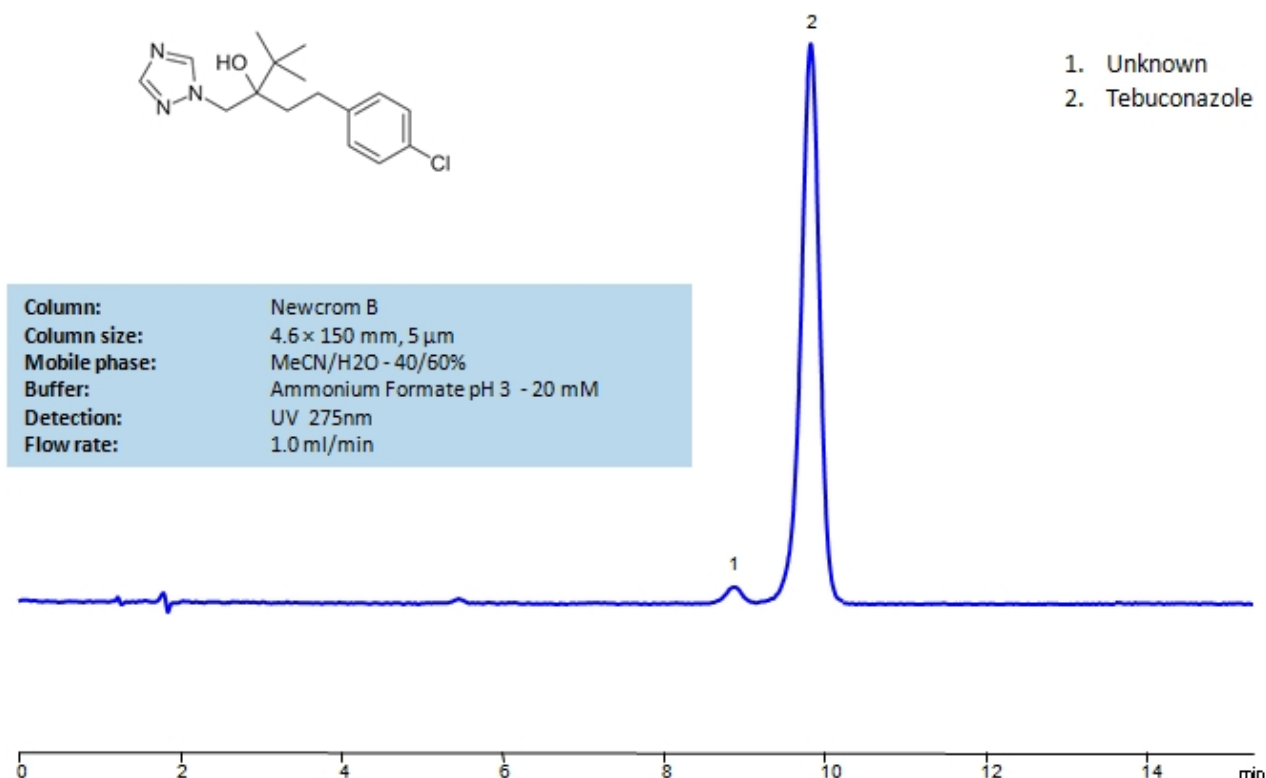


HPLC Determination of Tebuconazole on Newcrom B

<https://sielc.com/hplc-determination-of-tebuconazole-on-newcrom-b>

Chromatogram



HPLC Determination of Tebuconazole on Newcrom B Column_1214

Description

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

Tebuconazole is a triazole fungicide with the chemical formula C₁₆H₂₂ClN₃O . It is used against to plant pathogenic fungi. Despite the U.S. Food and Drug Administration considering this fungicide safe, it is considered a possible carcinogen with the rating of C. According to the World Health Organization, it has moderate toxicity and is slightly hazardous.

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

Method Parameters

Mobile Phase	MeCN/H ₂ O – 40/60%
Buffer	Gradient AmFm pH 3.0 – 20 mM
Flow Rate	1.0 ml/min
Detection	UV, 275 nm

Class of Compounds	Hydrophobic, Neutral, Herbicide, Pesticide
Analyzing Compounds	Tebuconazole

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)