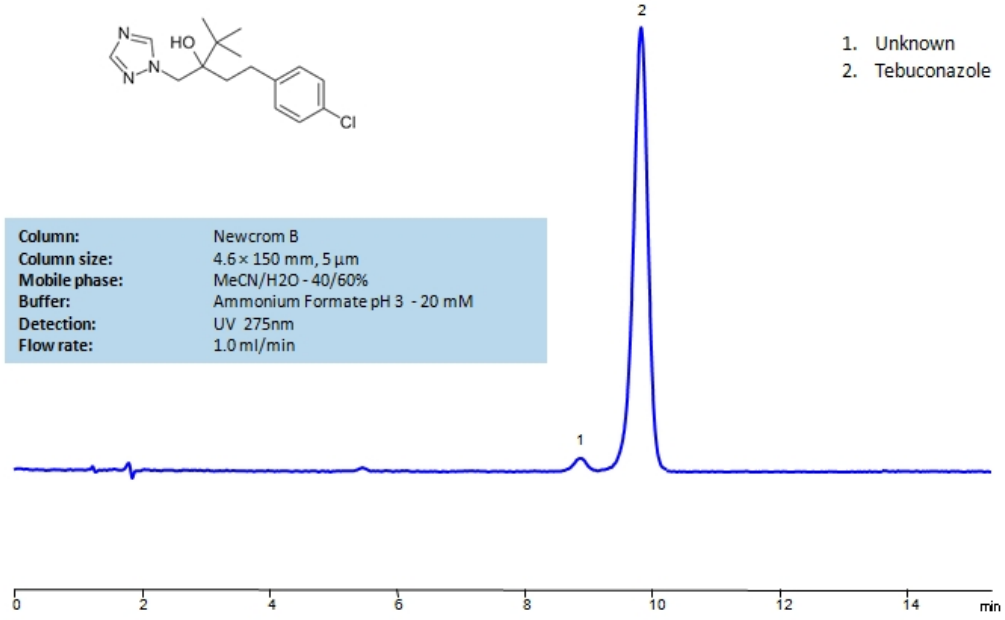
HPLC Determination of Tebuconazole on Newcrom B



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

Column	Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 40/60%
Buffer	Gradient AmFm pH 3.0 – 20 mM
Flow Rate	1.0 mL/min
Detection	UV, 275 nm

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