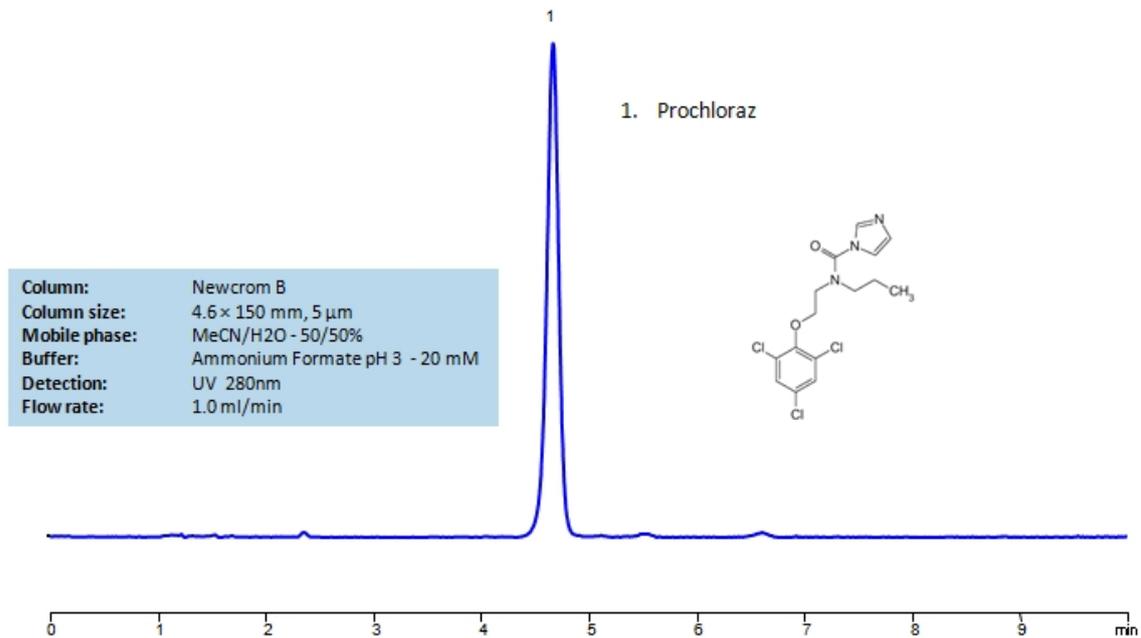


HPLC Determination of Prochloraz on Newcrom B Column



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

Prochloraz is an imidazole fungicide with the chemical formula C₁₅H₁₆Cl₃N₃O₂ . It is used widely across Europe, Asia, South America, and Australia, but is not registered for use in the United States. It works as an inhibitor of the enzyme lanosterol 14 α -demethylase.

Prochloraz can be retained and analyzed using the Newcrom B stationary phase column. The analysis utilizes an isocratic 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/H ₂ O – 50/50%
Buffer	AmFm pH 3.0 – 20 mM
Flow Rate	1.0 mL/min
Detection	UV, 280 nm

Quelle: <https://sielc.com/hplc-determination-of-prochloraz-on-newcrom-b-column>