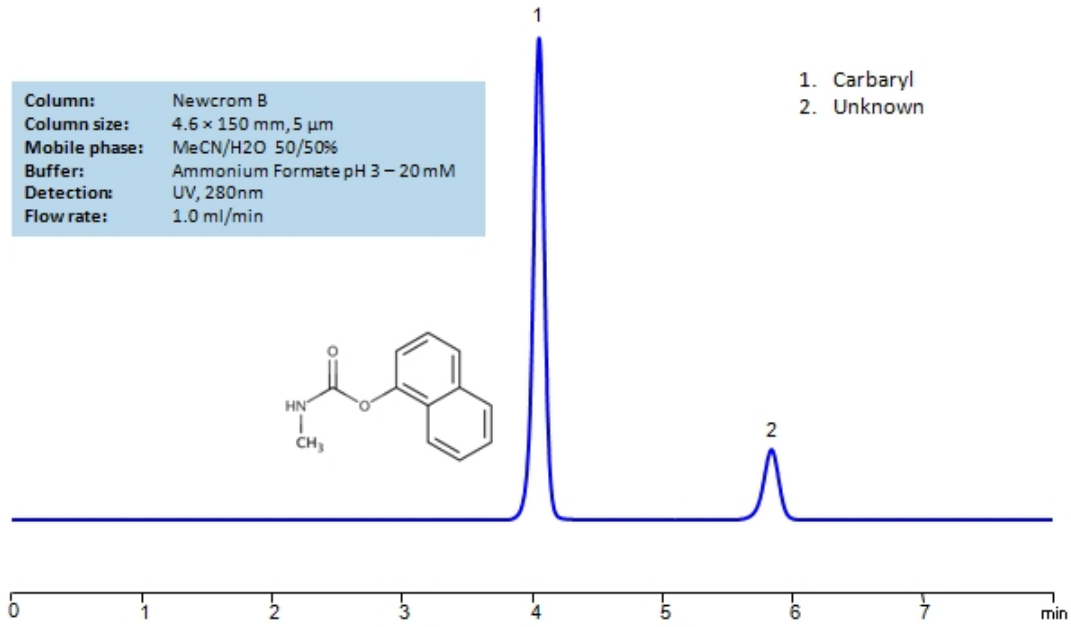
HPLC Determination of Carbaryl on Newcrom B Column



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

Carbaryl , also known as Sevin and 1-naphthyl methylcarbamate, is an insecticide that works as a cholinesterase inhibitor. Carbaryl is highly toxic to zooplankton and works on both targeted and beneficial insects. It is classified as a potential human carcinogen.

Carbaryl can be retained on Newcrom B mixed-mode column in HPLC analysis with an isocratic method by using a mobile phase of acetonitrile (ACN) and water with ammonium formate (AmFm) as buffer, making the analytical method MS-compatible. Can also be UV detected at 280 nm.

Method Parameters

Column	Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 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-carbaryl-on-newcrom-b-column