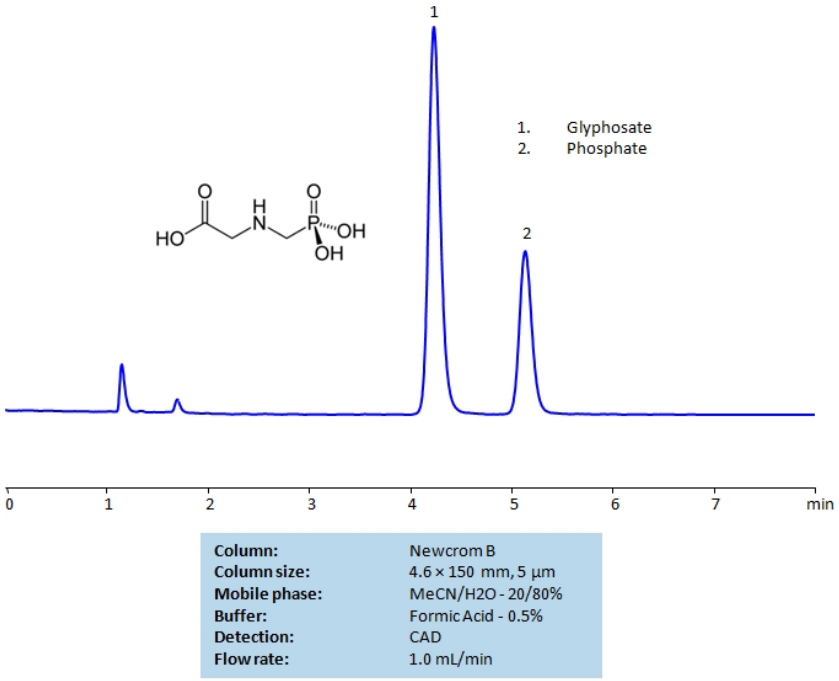
HPLC Separation of Glyphosate and Phosphate Ion on Newcrom B Column



HPLC Method for Glyphosate , Phosphate on Newcrom B by SIELC Technologies

High Performance Liquid Chromatography (HPLC) Method for Analysis of Glyphosate and Phosphate Ion

Glyphosate is a broad-spectrum herbicide which is used to kill weeds. The presence of glyphosate is strongly regulated by various governing agencies in the US, Europe, and Asia. Glyphosate is characterized by its carboxylic acid and phosphate group on either end. Glyphosate and phosphate ions can be retained and separated with a Newcrom B mixed-mode column using a mobile phase consisting of acetonitrile (MeCN), water, and formic acid (H3PO4) as a buffer. This method is compatible with mass spectrometry and be detected via a Charged aerosol detector (CAD).

Method Parameters

Column	Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 20%
Buffer	Formic Acid – 0.5%
Flow Rate	1.0 mL/min
Detection	CAD

Quelle: https://sielc.com/hplc-separation-of-glyphosate-and-phosphate-ion