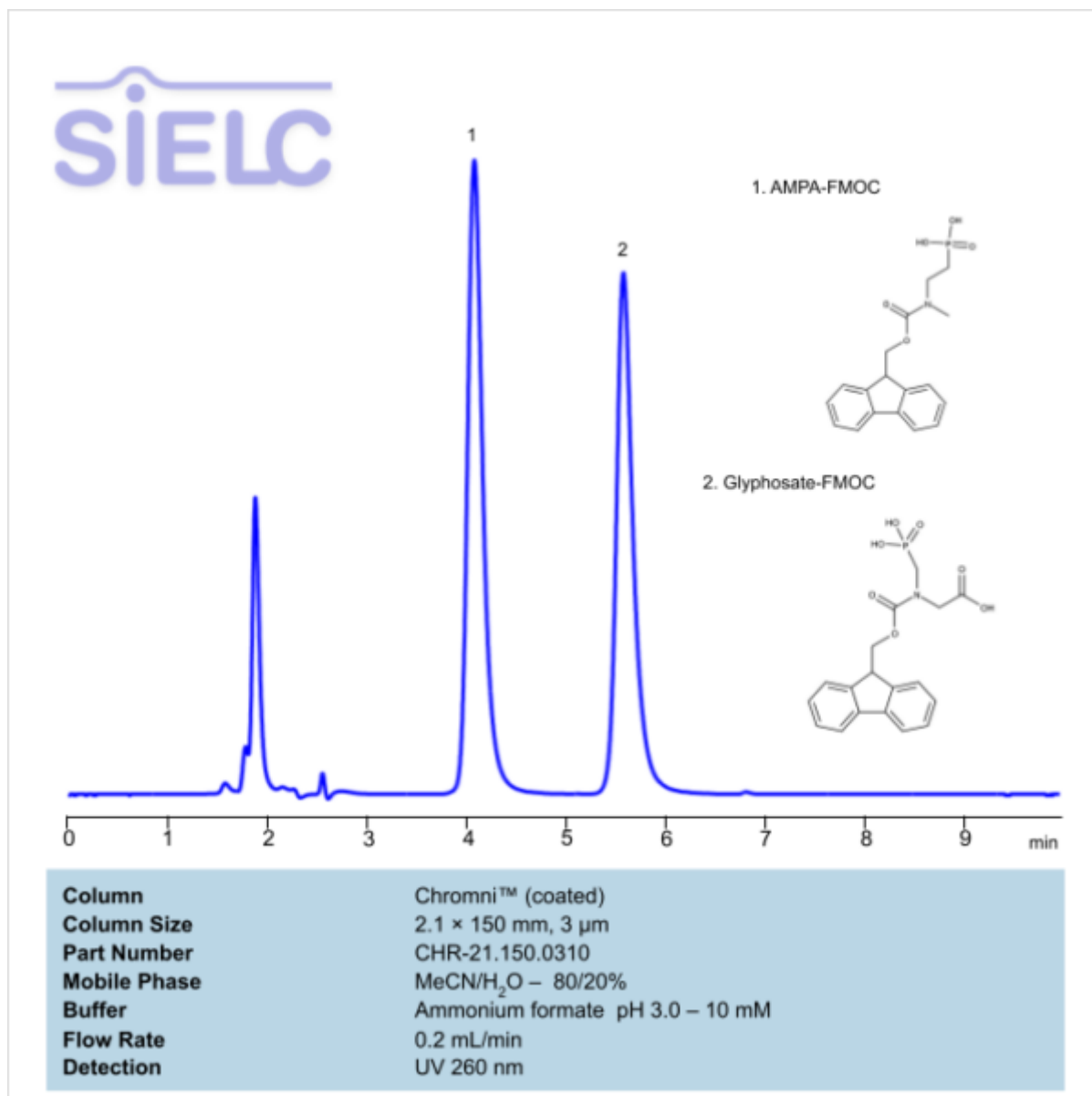


HPLC ELSD Method for Analysis of FMOF Derivatized AMPA and Glyphosate on Chromni Column

<https://sielc.com/hplc-method-for-analysis-of-fmoc-ampa-glyphosate>

Chromatogram



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Aminomethylphosphonic acid (AMPA) , Glyphosate .

Aminomethylphosphonic Acid is an aminophosphonate with the chemical formula $\text{CH}_6\text{NO}_3\text{P}$. It is primarily used as a biocide and pesticide, as well as in research to assess the exposure of glyphosate. It is a major toxic metabolite of glyphosate as is considered to be a similar toxicological concern. You can find detailed UV spectra of Aminomethylphosphonic acid (AMPA) and information about its various lambda maxima by visiting the following link.

Glyphosate is an herbicide with a chemical formula of $\text{C}_3\text{H}_8\text{NO}_5\text{P}$. It works through blocking enzymes, like 5-enolpyruvylshikimate-3-phosphate synthase, essential for plant growth. It is typically found in agricultural work, but can occasionally be found in forestry and garden care. You can find detailed UV spectra of Glyphosate and information about its various lambda maxima by visiting the following link.

Aminomethylphosphonic acid (AMPA) , Glyphosate can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) and ammonium acetate. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O
Buffer	AmAc pH 3.0 – 10 mM
Flow Rate	0.2 ml/min
Detection	UV 260 nm
Class of Compounds	Aminophosphonate & Herbicide
Analyzing Compounds	Aminomethylphosphonic acid (AMPA), Glyphosate

HPLC Column Used

Chromni, 2.1 x 150 mm, 3 µm, 100 Å, surface coated

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