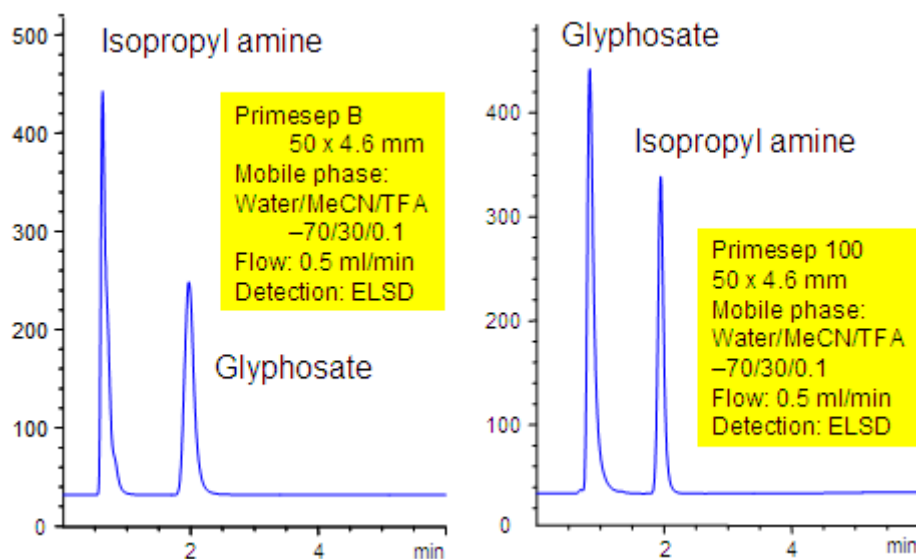


# Separation of Glyphosate by Cation Exchange and Anion Exchange

<https://sielc.com/Application-Separation-of-Glyphosate-By-Cation-Exchange-and-Anion-Exchange>

## Chromatogram



## Description

Primesep 100 separates a mixture of glyphosate and isopropylamine by HPLC using cation exchange as a retention mechanism. The peak order of this mixture is reversed on a Primesep B column which uses anion exchange. This combination offers an alternative to ion chromatography for the simultaneous analysis of complex herbicide mixtures. Glyphosate, other phosphonomethyl herbicides, and their amine salts can be analyzed with a mobile phase mixture of water, acetonitrile (MeCN, ACN) and trifluoroacetic acid (TFA) and evaporative light scattering detection (ELSD).

## Method Parameters

Mobile Phase	MeCN/H <sub>2</sub> O
Buffer	TFA
Flow Rate	0.5 ml/min
Detection	ELSD
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	Glyphosate, Isopropylamine

## HPLC Column Used

**Primesep B, Primesep 100, 4.6x50 mm, 5 µm, 100A**