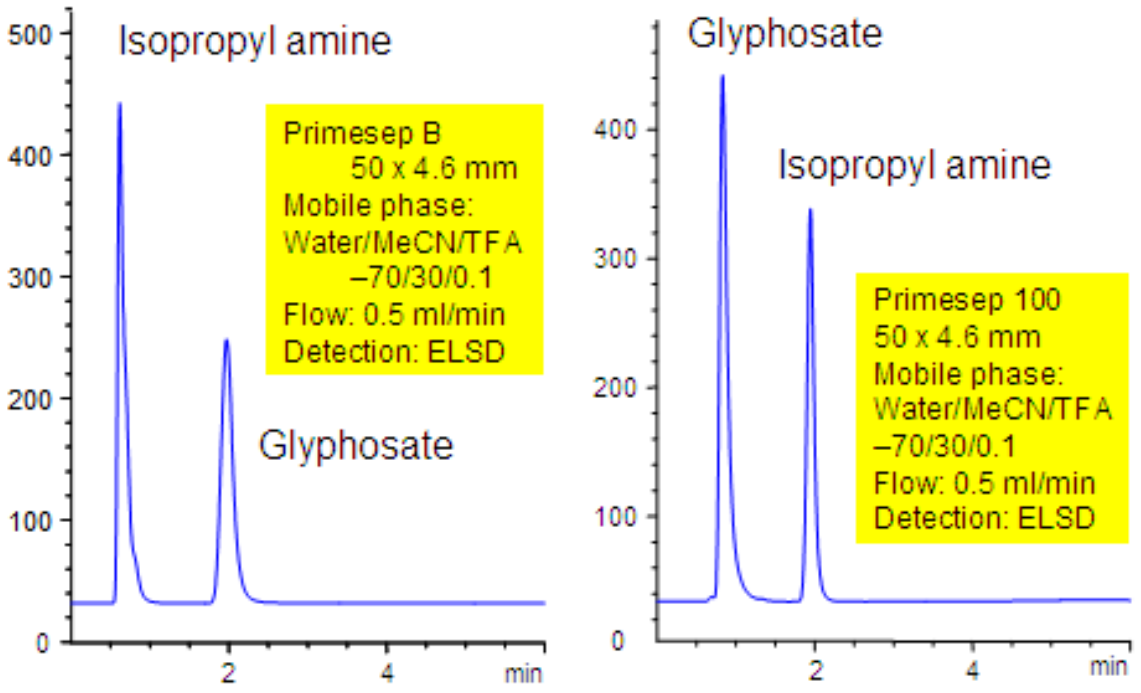
Separation of Glyphosate by Cation Exchange and Anion Exchange



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

Column	Primesep B, Primesep 100, 4.6×50 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O
Buffer	TFA
Flow Rate	0.5 mL/min
Detection	ELSD

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