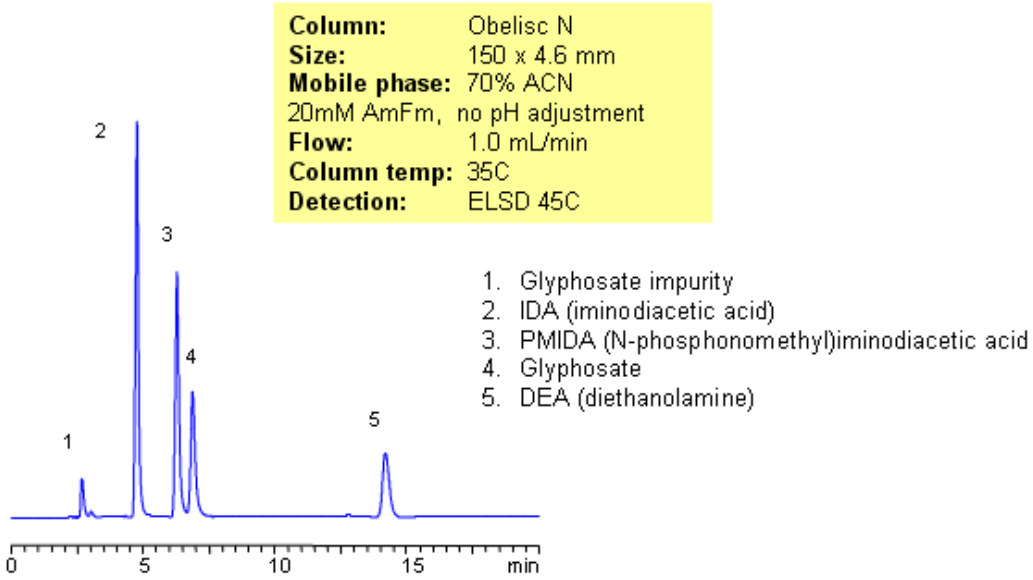
HPLC Separation of Glyphosate Reaction Intermediates and Impurities

https://sielc.com/Application-HPLC-Separation-of-Glyphosate-Reaction-Intermediates-and-Impurities

Chromatogram



Description

Glyphosate and intermediates/impurities of production are separated on an Obelisc N HILIC/ion-exchange column by a combination of HILIC and ion-exchange mechanism. Method can be used in analysis of glyphosate, iminodiacetic acid, (N-phosphonomethyl)-imminodiacetic acid, diethanolamine and related impurities in reaction mixtures, waste and ground waters. Detection techniques are LC/MS, ELSD, CAD and UV.

Method Parameters

Mobile Phase	MeCN/H2O
Buffer	Ammonium Formate
Flow Rate	1.0 ml/min
Detection	ELSD
Class of Compounds	Herbicide, Hydrophilic, Ionizable
Analyzing Compounds	Glyphosate, IDA, PMIDA, DEA

HPLC Column Used

Obelisc N, 4.6×150 mm, 5 µm, 100A

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