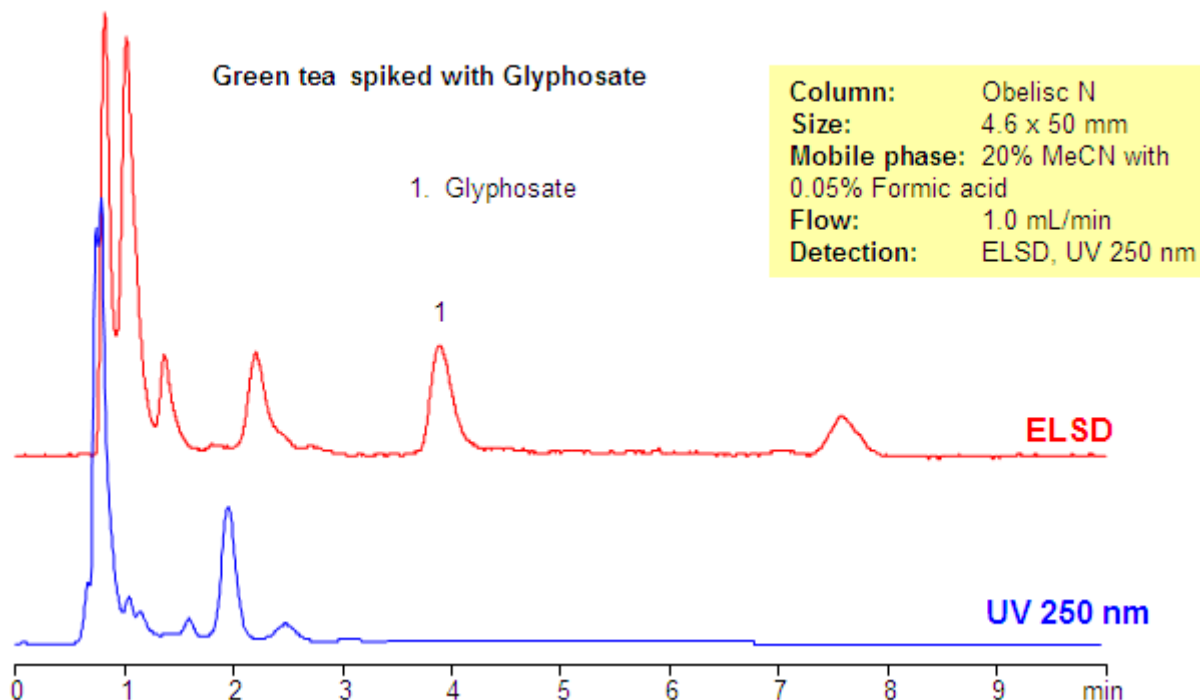


Method for Analysis of Glyphosate in Apple Juice, Cranberry Juice, Mango Juice and Green Tea

<https://sielc.com/Application-Metho-For-Analysis-of-Glyphosate-in-Apple-Juice-Cranberry-Juice-Mango-Juice-and-Green-Tea>

Chromatogram



Description

Glyphosate is a broad-spectrum herbicide which is used to kill weeds. Presence of glyphosate is strongly regulated by various governing agencies in the US, Europe, and Asia. Method for analysis of glyphosate in fruit juices and teas was developed using the Obelisc N HILIC/ion-exchange column. Glyphosate is retained by an ion-exchange mechanism. Since the method uses a highly aqueous mobile phase, which is not usual, for HILIC columns, none of the sugars, vitamins and other components of juices interfere with the analysis of glyphosate. Samples of juices were spiked with glyphosate. This method can be used in combination with LC/MS for determination of very low concentrations of glyphosate in various fruits and vegetables as well as ground and drinking water.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	Formic acid – 0.05%
Flow Rate	1.0 ml/min
Detection	UV, 250 nm, ELSD
Class of Compounds	Herbicide, Hydrophilic, Ionizable
Analyzing Compounds	Glyphosate

HPLC Column Used

Obelisc N, 4.6x50 mm, 5 µm, 100A

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