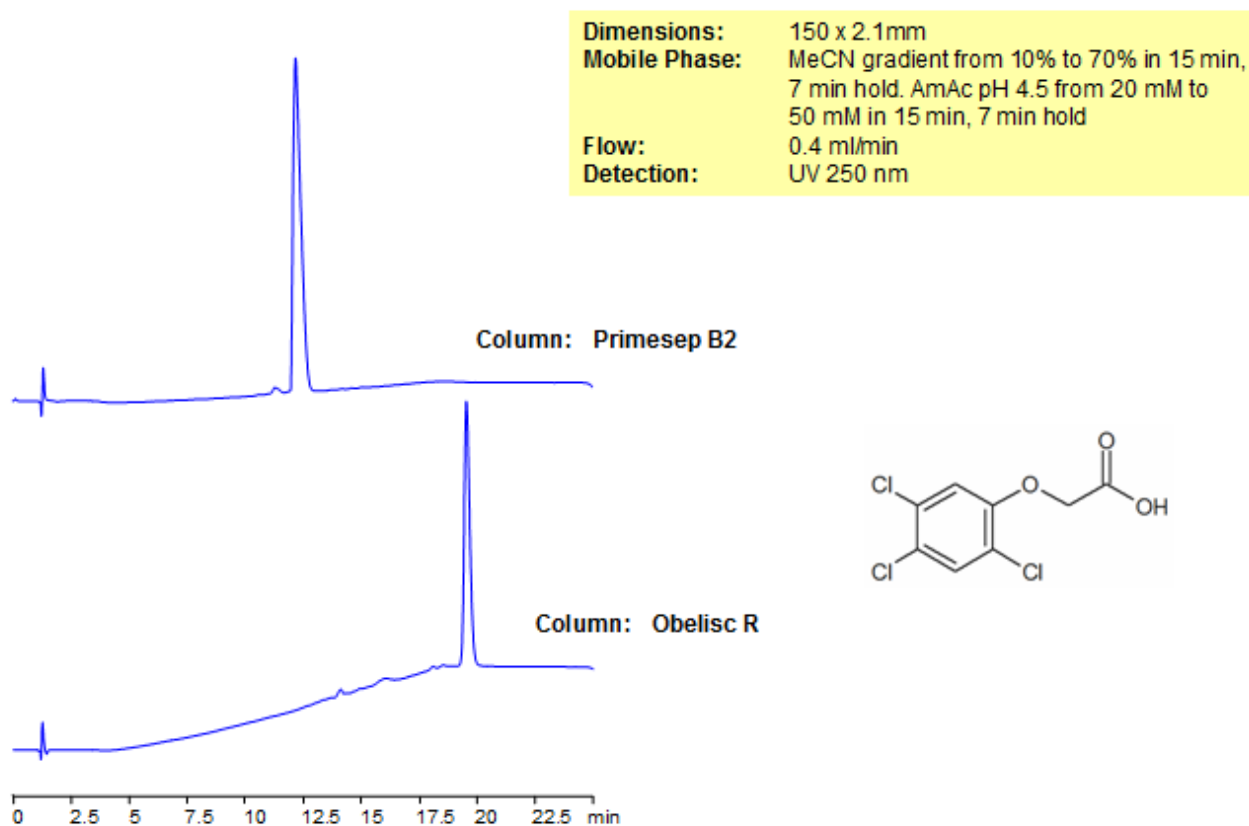


Analysis of 2,4,5-Trichlorophenoxyacetic acid on Primesep B2 Column

<https://sielc.com/Application-Analysis-of-2-4-5-Trichlorophenoxyacetic-acid-on-Primesep-and-Obelisc-HPLC-Columns>

Chromatogram



Description

2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) is a synthetic auxin and herbicide that was widely used until the 1970s. The EURL (European Union Reference Laboratory) included a QuEChERS (Quick, Easy, Cheap, Rugged, and Safe) method for 2,4,5-T as a target pesticide for EUPT-SRM. Obelisc R and Primesep B2 were used to retain 2,4,5-T and separate it from impurities. Primesep B2 contains embedded basic ion-pairing groups while Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations. This method is LC/MS compatible and can be used as a general approach for analyzing 2,4,5-T and dozens of other pesticides.

Method Parameters

Mobile Phase	Gradient MeCN – 10-70%, 15 min, 7 min hold
Buffer	Gradient AmAc pH 4.5- 20-50 mM, 15 min, 7 min hold
Flow Rate	0.4 ml/min
Detection	UV, 250 nm
Class of Compounds	Insecticide, Herbicide, Fungicide, Hydrophobic, Ionizable
Analyzing Compounds	2,4,5-Trichlorophenoxyacetic acid

HPLC Column Used

Primesep B2, 2.1×150 mm, 5 µm, 100A

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