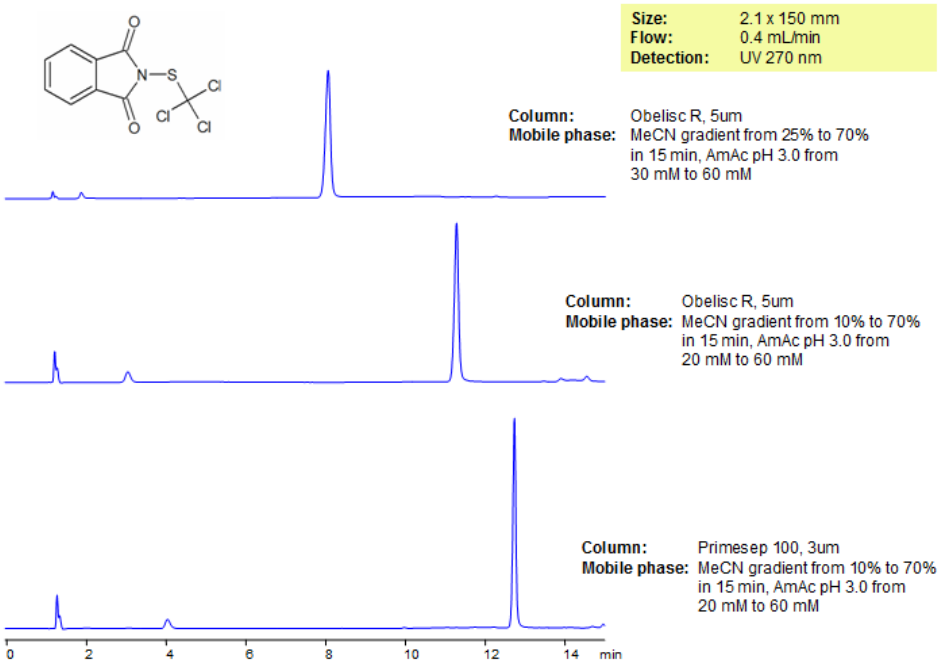
Folpet Analysis on Primesep 100 and Obelisc R HPLC Columns



Folpet is a fungicide which is used to prevent a variety of fungal infections such as apple scab, cherry leaf spot, rose black spot, and rose mildew. Folpet was one of many pesticides studied by the EURL-SRM, a proficiency test for single residue methods developed by the European Union Reference Laboratory. Folpet was retained and separated from impurities with Obelisc R and Primesep 100 columns. Primesep 100 contains embedded acidic ion-pairing groups and Obelisc R contains embedded ionic and hydrophobic groups which can assist in fine tuning separations. Method can be used for dozens of other pesticides and is LC/MS compatible.

SIELC has developed the Obelisc™ columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSC™). These cost-effective columns are the first of their kind to be commercially available and can replace multiple HPLC columns, including reversed-phase (RP), AQ-type reversed-phase, polar-embedded group RP columns, normal-phase, cation-exchange, anion-exchange, ion-exclusion, and HILIC (Hydrophilic Interaction Liquid Chromatography) columns. By controlling just three orthogonal method parameters - buffer concentration, buffer pH, and organic modifier concentration - users can adjust the column properties with pinpoint precision to separate complex mixtures.

Method Parameters

Column	Primesep 100, 2.1×150 mm, 5 µm, 100 Å
Mobile Phase	Gradient MeCN – 10-70%, 15 min
Buffer	Gradient AmAc pH 3.0- 20-60 mM, 15 min
Flow Rate	0.4 mL/min
Detection	UV, 270 nm

Quelle: https://sielc.com/Application-Folpet-Analysis-on-Primesep-100-and-Obelisc-R-HPLC-Columns