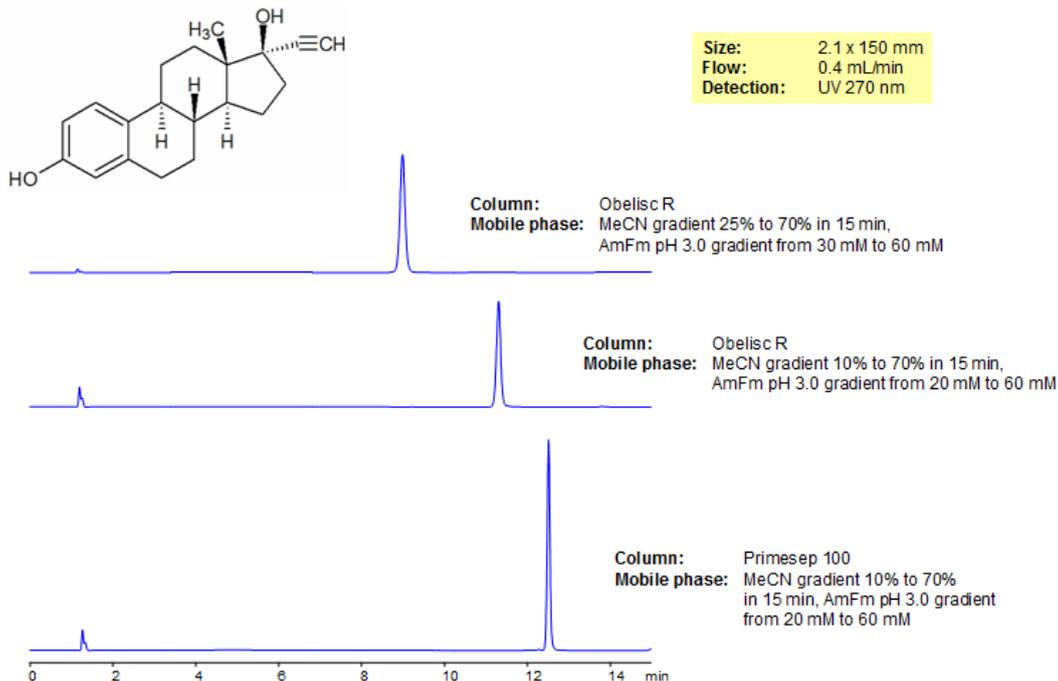


HPLC Analysis of 17 α -Ethinylestradiol



17 α -Ethinylestradiol or Ethynyl Estradiol (EE2) is a partially synthetic steroidal estrogen and one of the most commonly used drugs for use in oral contraceptives. EE2 is an estrogen since it activates the estrogen receptor. While dosing of EE2 has been lowered in oral contraceptives, worries about water contamination made an analysis of EE2 necessary. Obelisc R and Primesep 100 were used to demonstrate their unique modes of separation. Method is LC/MS compatible and able to be replicated for many different pesticides.

SIELC has developed the ObeliscTM columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSCTM). 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, 2.1x150 mm, 5 μ m, 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-HPLC-Analysis-of-17a-Ethynylestradiol>