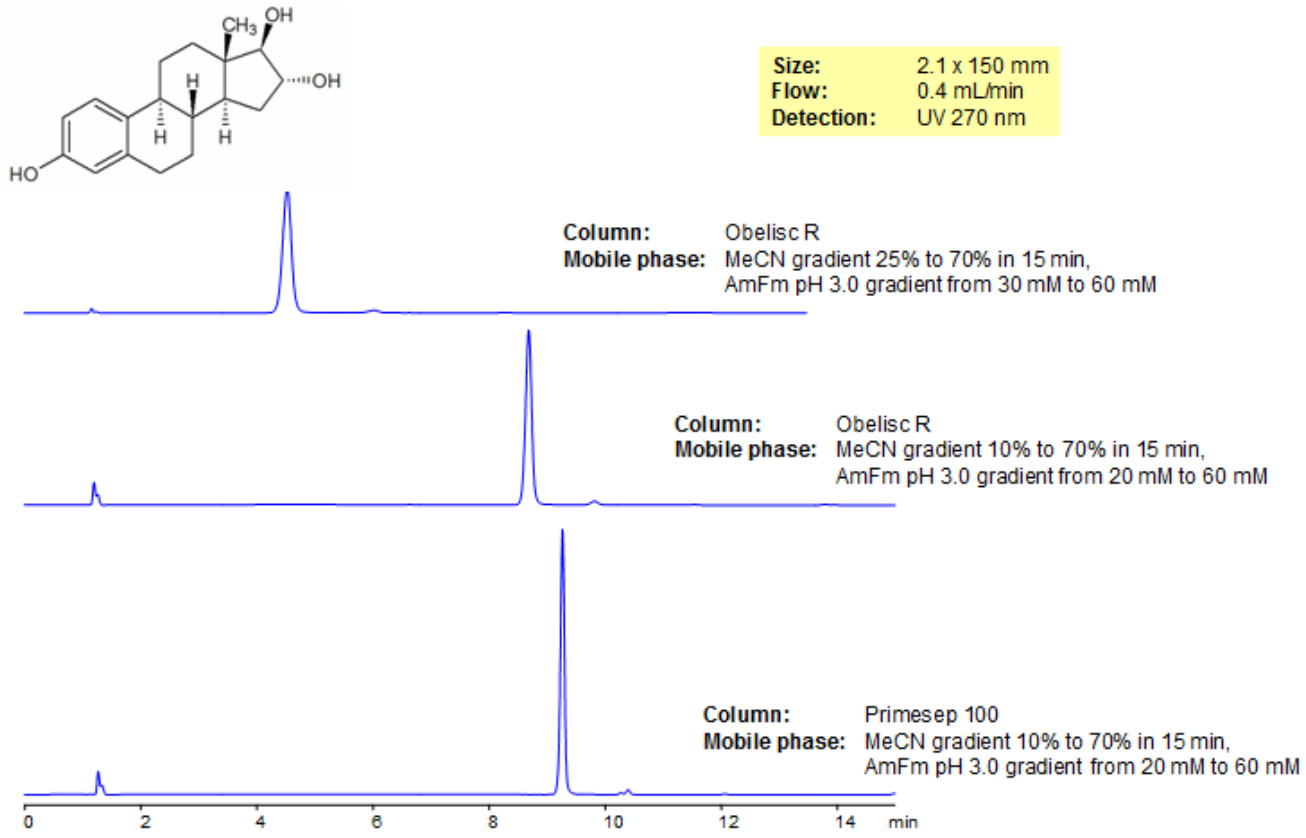
16a-Hydroxyestradiol Separation on Mixed-Mode HPLC Columns

https://sielc.com/Application-16a-Hydroxyestradiol-Separation-on-Mixed-Mode-HPLC-Columns

Chromatogram



Description

· Separation type: Liquid Chromatography Mixed-mode

16a-Hydroxyestradiol is an estrogen very similar to estriol, but with three C13 in the 2,3,4 positions. Estriol is often used as a marker for fetal health since it is produced by the adrenal cortex of the fetus. 16a-Hydroxyestradiol was analyzed for a study focused on emerging contaminants in water by the Federal Institute of Hydrology of Koblenz, Germany. It was retained on both Primesep 100 and Obelisc R HPLC Columns. Obelisc R is a mixed-mode column which uses a long hydrophobic chain and multiple ionic groups to fine tune retention. Primesep 100 is a reverse phase column with embedded acidic ion pairing groups. Method is LC/MS compatible and will be effective for achieving unique retention for many pesticides.

Method Parameters

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
Class of Compounds	Hormone, Hydrophobic, Ionizable

Analyzing Compounds	16a-Hydroxyestradiol

HPLC Column Used

Primesep 100, 2.1×150 mm, 5 µm, 100A

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