

# HPLC Application

ID No.: 19680

## Estrone, Estradiol, and Estriol from Water @ pH 2.0 Strata-X via Kinetex XB-C18 150x4.60mm

**Column:** Kinetex<sup>®</sup> 2.6  $\mu$ m XB-C18 100  $\text{\AA}$ , LC Column 150 x 4.6 mm, Ea

**Dimensions:** 150 x 4.6 mm ID

**Order No:** 00F-4496-E0

**Elution Type:** Gradient

**Eluent A:** 6.9mM Ammonium Acetate pH 4.0 with 25% Acetonitrile (v/v)

**Eluent B:** Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	100	0
	2	10	35	65

**Flow Rate:** 1.2 mL/min

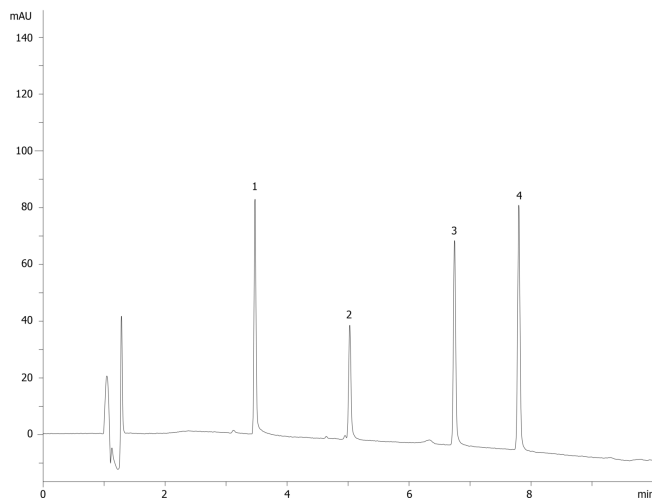
**Col. Temp.:** ambient

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 230 nm (ambient)

19680



Products used in this application:



### ANALYTES:

- 1 Estriol
- 2 Ethyl paraben
- 3 17-beta-Estradiol
- 4 Estrone



# Sample Preparation Details

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## Estrone, Estradiol, and Estriol from Water @ pH 2.0 Strata-X via Kinetex XB-C18 150x4.60mm

### PRODUCT DESCRIPTION:

Strata™-X 33 µm Polymeric Reversed Phase, 200 mg / 6 mL, Tubes , 30/Pk

Order No.: 8B-S100-FCH

### SOLID PHASE EXTRACTION (SPE) PROCEDURE:

**Note:** The solvent volumes shown below are for a 200 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### Condition:

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#### Load:

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#### Wash:

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#### Dry:

1 Minute

#### Elute:

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#### Final Prep and Analysis:

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Inject: 0 µL on HPLC UV-Vis Abs.-Variable Wave.(UV) @ 230 nm (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Estriol	30			81	
2 Ethyl paraben	20			100	
3 17-beta-Estradiol	30			98	
4 Estrone	30			88	

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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