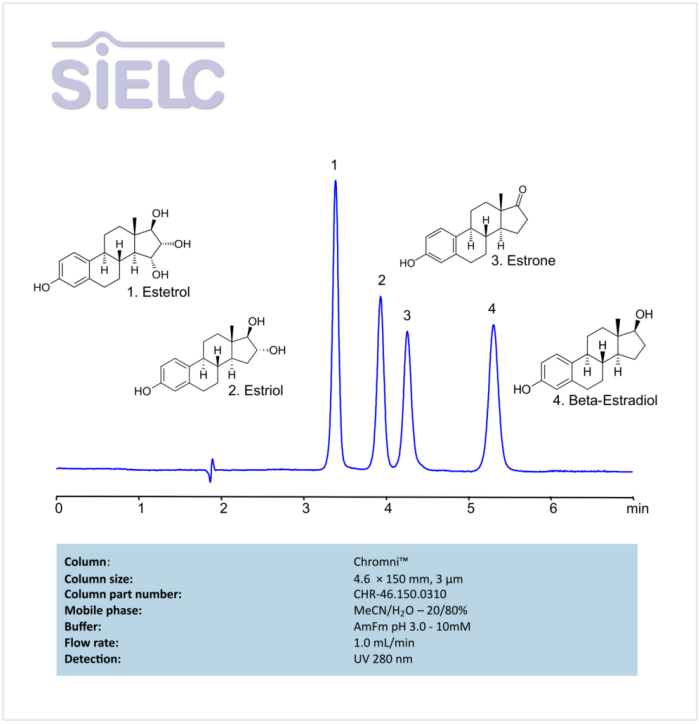
HPLC Method for Analysis of Estetrol, Estiol, Estrone, and Besta-Estradiol on Chromni Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Estrone , Estradiol , Estetrol , Estriol

Estetrol is an synthetic organochlorine compound with the molecular formula C18H24O4 .

Properties: Appearance: Typically a white, odorless, powder.

Molecular weight: ~270.4 g/mol

Solubility: Soluble in water.

Uses: Production of contraceptives.

Estriol is an synthetic organochlorine compound with the molecular formula C18H24O3 .

Molecular weight: ~288.4 g/mol

Solubility: Soluble in benzene, water, alcohol, and vegetable oils.

Uses: Hormone Replacement Therapy and similar medication.

Estrone is an synthetic organochlorine compound with the molecular formula C18H22O2 .

Properties: Appearance: Typically a white, odorless, crystals.

Solubility: Soluble in benzene, water, acetone, and vegetable oils.

Uses: Production of medication

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Beta-Estradiol is an synthetic organochlorine compound with the molecular formula C18H24O2 .

Molecular weight: ~272.4 g/mol

Solubility: Soluble in ethanol, water, and vegetable oils.

Uses: Production of medication for treatment of menopausal symptoms

Estrone , Estradiol , Estetrol , Estriol can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and ammonium formate. Detection is performed using UV.

Method Parameters

Column	Chromni, 4.6 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN – 20%
Buffer	Ammonium Formate – 10mM
Flow Rate	1.0 mL/min
Detection	UV 280 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-estetrol-estiol-estrone-besta-estradiol