

HPLC Method for Analysis of B-Estradiol on Primesep 200 Column

<https://sielc.com/hplc-method-for-analysis-of-b-estradiol>

Chromatogram

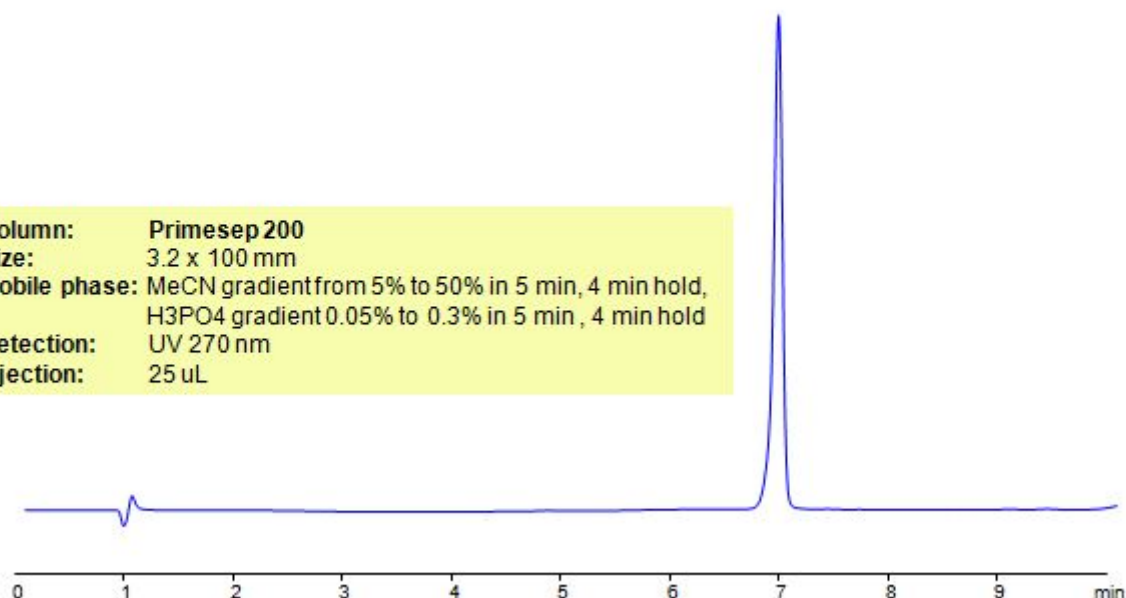
Column: Primesep 200

Size: 3.2 x 100 mm

Mobile phase: MeCN gradient from 5% to 50% in 5 min, 4 min hold,
H3PO4 gradient 0.05% to 0.3% in 5 min, 4 min hold

Detection: UV 270 nm

Injection: 25 µL



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of B-Estradiol

B-Estradiol is an estrogen steroid hormone. It is the major estrogen secreted by the premenopausal ovary. It is synthesized from testosterone primarily in the ovarian granulosa cells and placenta. B- estradiol is used as a medication, for instance in menopausal hormone therapy. Primesep 200, a reverse phase column , contains embedded acidic ionizable groups and can retain B-Estradiol. The method is UV compatible and can be used as a general approach for analyzing similar compounds.

Method Parameters

Mobile Phase	Gradient MeCN – 5-50%, 5 min, 4 min hold
Buffer	Gradient H2SO4 – 0.05-0.3 %, 5 min, 4 min hold
Flow Rate	1.0 ml/min
Detection	UV, 270 nm
Class of Compounds	Drug, Hormone, Hydrophobic
Analyzing Compounds	B-Estradiol

HPLC Column Used

Primesep 200, 3.2 x 100 mm, 5 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](#)