

Estrogens in River Water (Endocrine Disruptors)

Conditions

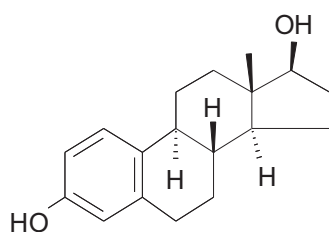
Column: XTerra® RP₁₈ 4.6 x 100 mm, 3.5 µm
 Part Number: 186000438
 Mobile Phase A: H₂O
 Mobile Phase B: MeOH
 Gradient:

Time (min)	%A	%B
0.0	50	50
20.0	10	90

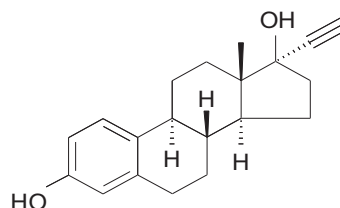
Flow rate: 1.0 mL/min
 Injection Volume: 75 µL
 Detection: UV @ 283 nm
 Instrument: Alliance® 2695, 2996 PDA

Compounds

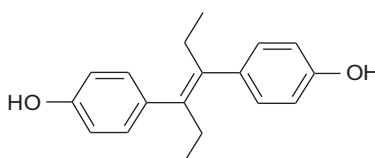
1. 17β-estradiol
2. 17α-ethynylestradiol
3. Diethylstilbestrol



17β-estradiol

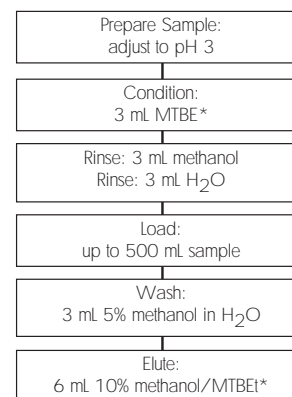


17α-ethynylestradiol



Diethylstilbestrol

Oasis® SPE Method for Endocrine Disruptors
 Conditions for Oasis® HLB Cartridge, 6 cc, 200 mg
 Part Number WAT106202



For GC analysis, dry
 extract over Na₂SO₄,
 then adjust to 1 mL

For LC analysis, exchange
 to acetonitrile, then
 adjust to 1 mL

* methyl tbutyl ether
 diethyl ether can be used as an alternative to MTBE

