

ESTROGENS IN RIVER WATER AT 5 NG/L (ENDOCRINE DISRUPTORS)

LC/MS METHOD

LC CONDITIONS

COLUMN: Xterra® MS C₁₈, 2.1 x 100 mm, 3.5 µm

PART NUMBER: 186000404

MOBILE PHASE A: NH₄OH in water, pH 10.5

MOBILE PHASE B: Acetonitrile

GRADIENT: Time Profile

(min)	%A	%B
0	70	30
8	35	65
9	10	90

INJECTION VOLUME: 20 µL

FLOW RATE: 200 µL/min, plumbed directly to detector

INSTRUMENT: Waters Alliance® Separations Module

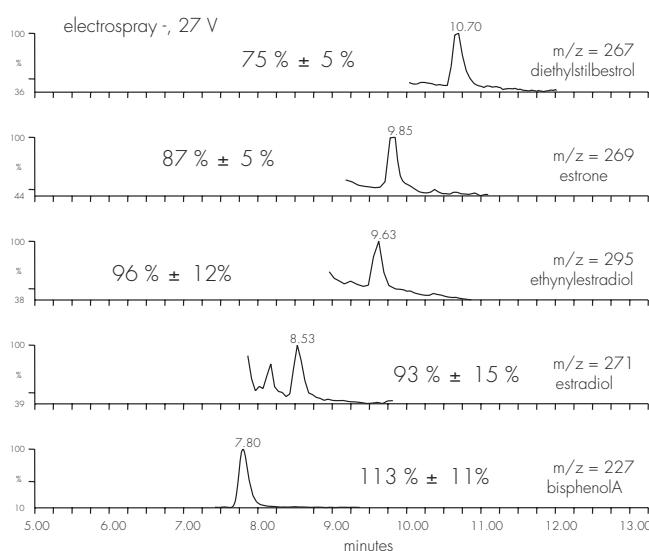
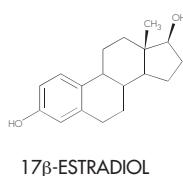
MS CONDITIONS

INSTRUMENT: Waters/Micromass Platform LC™

INTERFACE: Negative Electrospray (ESI)

Multiple Selected-Ion Recording (SIR)

Core voltage 27 V

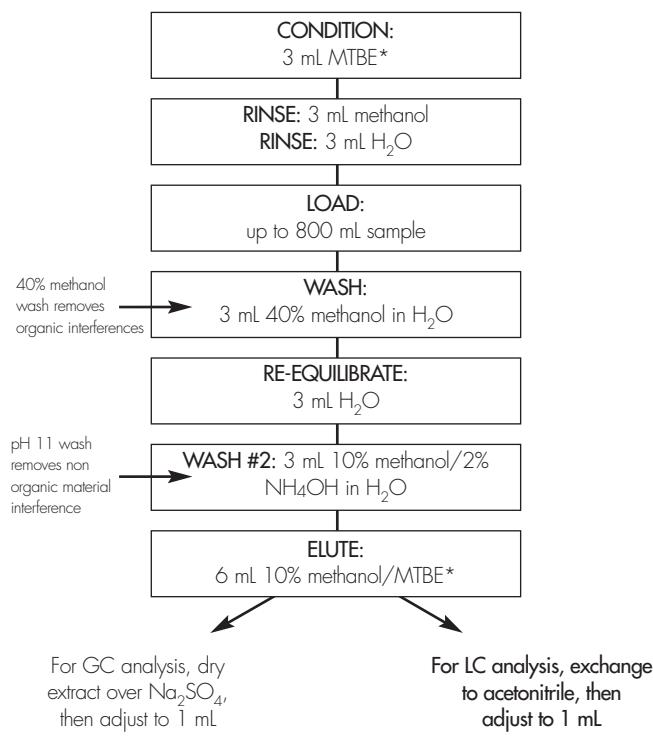


OASIS® SPE METHOD FOR ENDOCRINE DISRUPTORS

Modifications for low ppt analysis by LC/MS and GC/MS

Conditions for Oasis® HLB Glass Cartridge, 5 cc/200 mg

Part Number 186000683



* methyl t-butyl ether
 diethyl ether can be used as an alternative to MTBE

COMPOUNDS

Results, n=4

1. Diethylstilbestrol	75% ± 5%
2. Estrone	87% ± 5%
3. Ethynodiolide	94% ± 12%
4. Estradiol	93% ± 15%
5. Bisphenol A	113% ± 11%

5 ng/L Spike level