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응용 자료

Pharmaceutical Residues in Environmental Samples – LC-MS, 2.5 ppb

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

Abstract

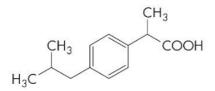
This application brief highlights the analysis of pharmaceutical residues in environmental samples using XTerra MS C_{18} columns.

Introduction

Compounds used in this study includes: 1. Acetaminophen 2. Phenylpropanolamine 3. Salicylic acid 4. Diphenhydramine 5. Clofibric acid 6. Ethynylestradiol 7. Tamoxifen 8. Ibuprofen

Acetaminophen

Diphenhydramine



Ibuprofen



Salicylic acid

CI H₃C COOH

Clofibric acid

Ethynylestradiol

Phenylpropanolamine

Tamoxifen

HPLC Conditions

Column: XTerra MS C_{18} 4.6 x 100 mm, 3.5 μ m (p/n:

186000436)

Mobile phase A: 15 mM NH₄COOH, pH 4.0

Mobile phase B: MeOH

Flow rate: 1.0 mL/min

Injection volume: 40 μ L

Detection: MS ESI+

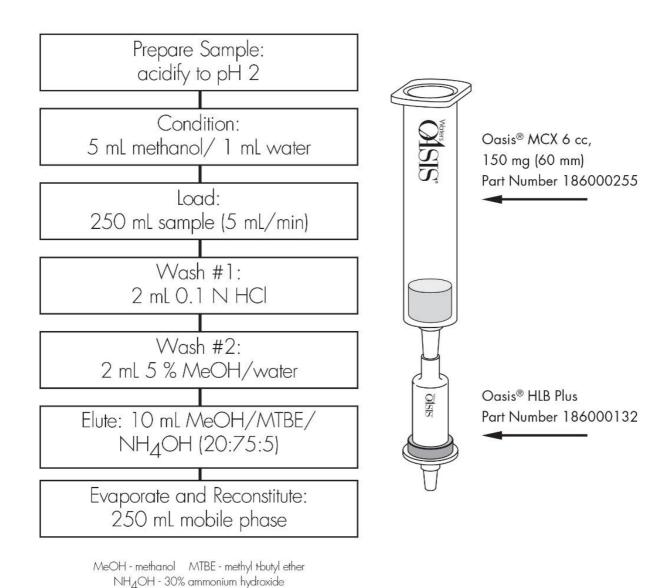
Instrument: Alliance 2695, Micromass ZQ

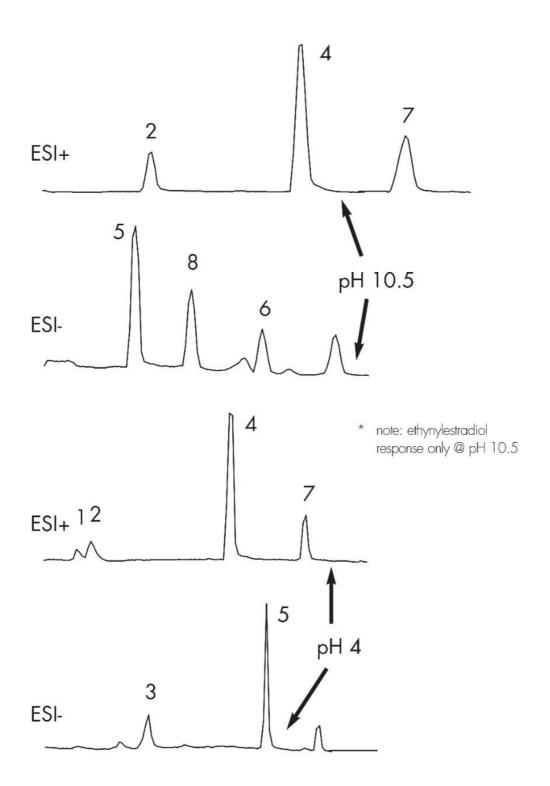
Gradient

Time (min)	Profile	
	%A	%B
0.0	75	25
10.0	10	90

Optimized SPE Method for LC/MS Determination of Pharmaceutical Residues in Environmental Samples Conditions for

Oasis® MCX 6 cc/150 mg (60 µm) Part Number 186000255 Oasis® HLB Plus Part Number 186000132





Alliance HPLC https://www.waters.com/514248

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