Waters™

Pharmaceutical Residues in Environmental Samples - LC/UV, 2.5 ppb

Waters Corporation



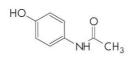
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

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

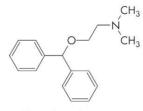
Introduction

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



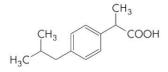
Acetaminophen

Clofibric acid



Diphenhydramine

Ethynylestradiol



Ibuprofen

Phenylpropanolamine

Salicylic acid

Tamoxifen

Experimental

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

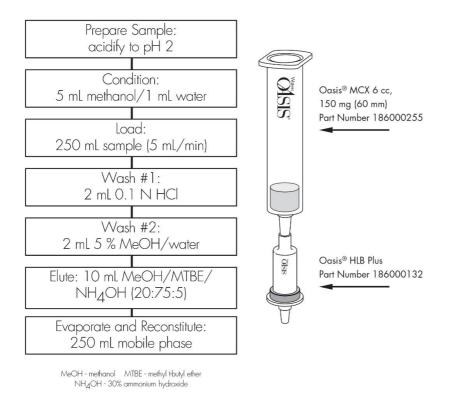
Detection: UV @ 230 nm

Instrument: Alliance 2695, 2996 PDA

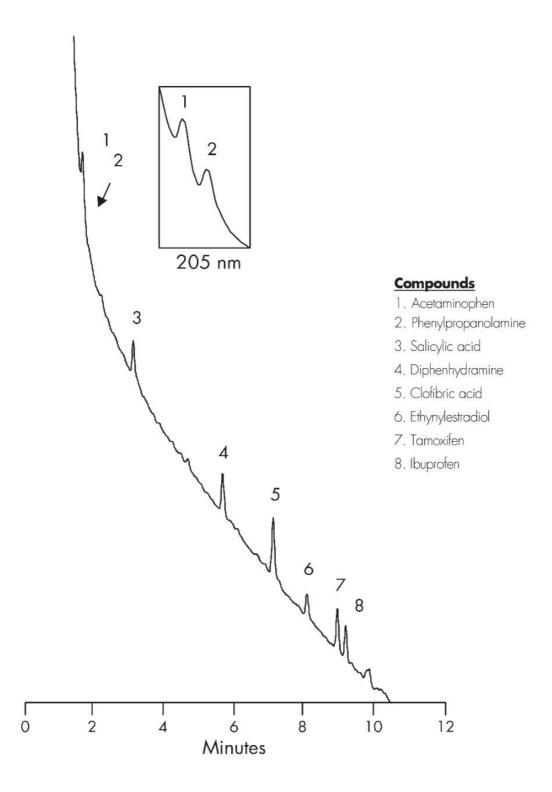
Gradient

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



Results and Discussion



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

WA20738.085, June 2002

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