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アプリケーションノート

Acidic Veterinary Drugs in Horse Urine by LC-MS

Waters Corporation

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

Abstract

This application brief demonstrates the analysis of acidic veterinary drugs in horse urine by LC-MS.

Introduction

The compounds analyzed in this study are:

- 1. Ketoprofen
- 2. Naproxen
- 3. Phenylbutazone
- 4. Ibuprofen
- 5. Meclofenamic acid

Experimental

LC-MS Method

Column: XTerra MS C_{18} , $2.1\,x\,100\,$ mm, $3.5\,$ μm

Part number: 186000404

Mobile phase A: 20 mM ammonium acetate (pH 4)

Mobile phase B: Methanol

Gradient: 50% A initial, to 90% methanol in 10 min

Flow rate: 175 mL/min

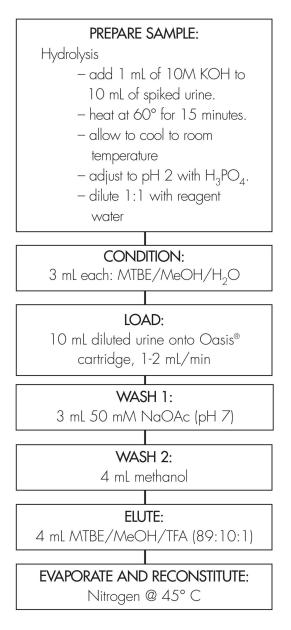
Injection volume: 10 μL

Instrument: Waters Alliance Separations Module with 996 PDA

Compound	0.1 ppm	0.4 ppm	2.0 ppm	10.0 ppm	r²
ketoprofen	4804(4.7)	26389(11)	129366(9.6)	525903(8.1)	0.998
naproxen	7621(8.8)	40234(23)	231980(12)	875595(7.3)	0.995
phenylbutazone	778(7.8)	4252(37)	39387(15)	207163(5.6)	0.999
ibuprofen	820(6.1)	3739(14)	23489(7.9)	127731(5.7)	0.999
meclofenamic acid	2070(11)	9531(23)	38822(11)	_	0.998

OASIS® METHOD

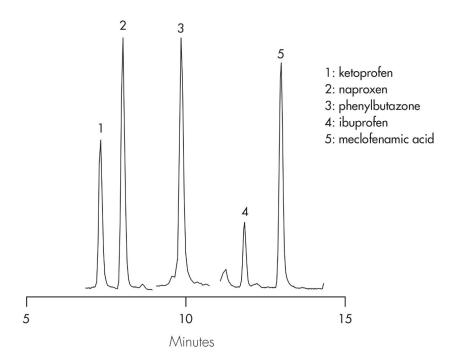
Oasis® MAX, 6 cc/150 mg Cartridge Part Number 186000369



MTBE - methyl t-butyl ether TFA - trifluoroacetic acid

Results and Discussion

RECONSTRUCTED TIC CHROMATOGRAM



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