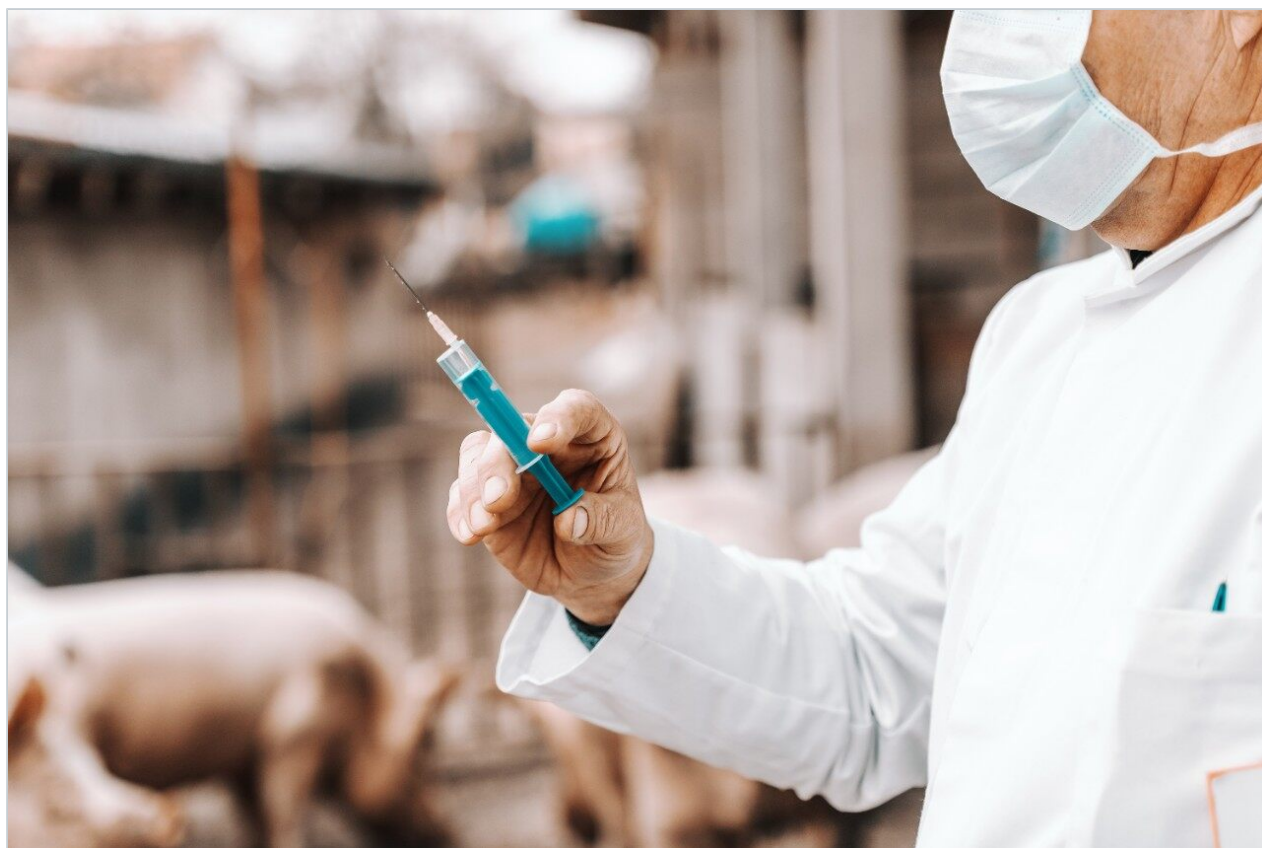


Application Note

Acidic Veterinary Drugs in Horse Urine - LC-MS

Waters Corporation



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

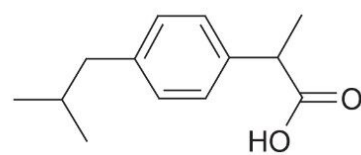
Abstract

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

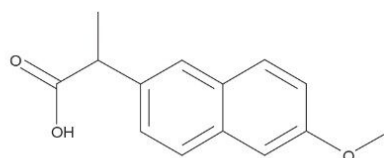
Introduction

The compounds used in this study are –

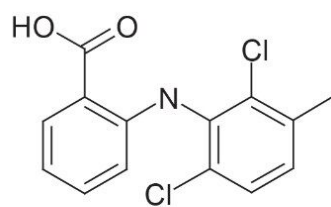
1. Ketoprofen
2. Naproxen
3. Phenylbutazone
4. Ibuprofen
5. Meclofenamic acid



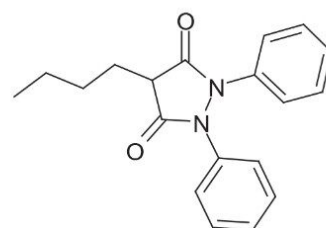
Ibuprofen



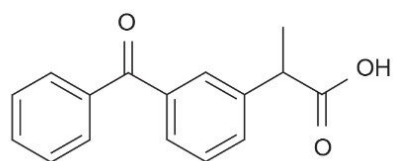
Naproxen



Meclofenamic acid



Phenylbutazone



Ketoprofen

Compounds.

Experimental

Conditions

Column:

Xterra MS C₁₈ 2.1 x 100 mm, 3.5 μm

Part Number:

186000404

Mobile phase A: 20 mM CH₃COONH₄, pH 4.0

Mobile phase B: MeOH

Flow rate: 0.175 mL/min

Injection volume: 10 µL

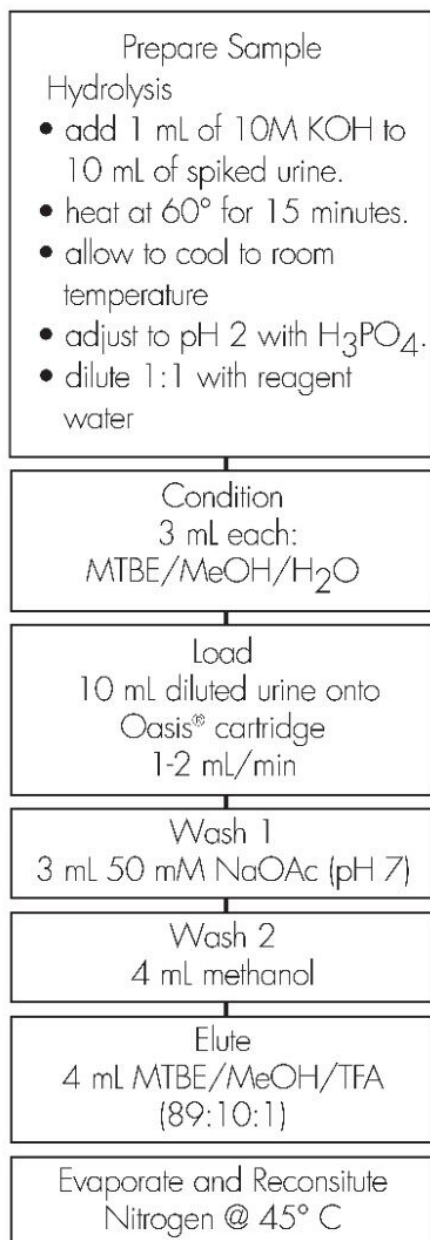
Detection: Micromass ZQ

Instrument: Alliance 2695

Gradient

Time (min)	Profile	
	%A	%B
0.0	50	50
10.0	10	90

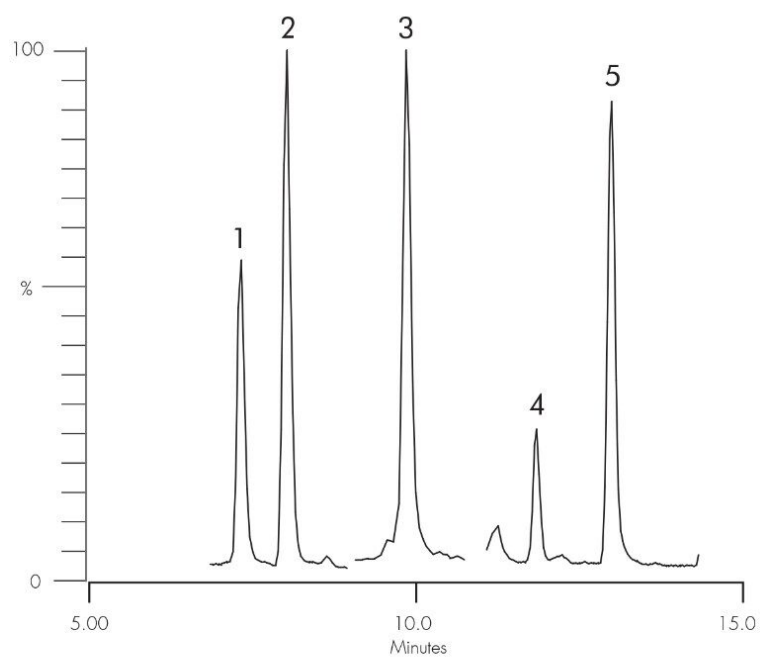
Oasis® Method
Oasis® MAX, 6 cc (150 mg)
Extraction Cartridge



MTBE - methyl t-butyl ether
TFA - trifluoroacetic acid

Results and Discussion

Reconstructed Total Ion Chromatogram



Featured Products

Alliance HPLC System <<https://www.waters.com/534293>>

WA20738.005, June 2002