

Acidic Veterinary Drugs in Horse Urine - LC-UV

Waters Corporation



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

Abstract

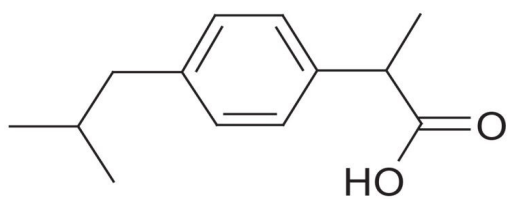
This application brief demonstrates analysis of acidic veterinary drugs in horse urine by LC-UV.

Introduction

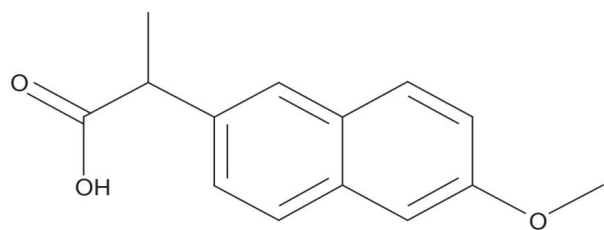
The compounds used in this study are –

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

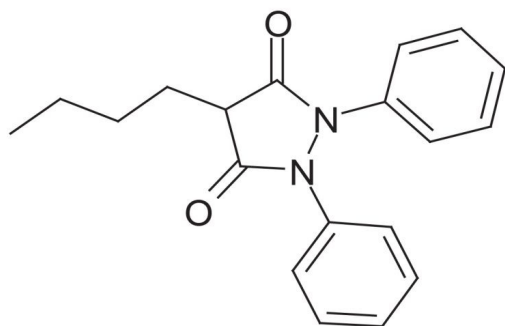
ISTD: Dichlorobenzoic acid



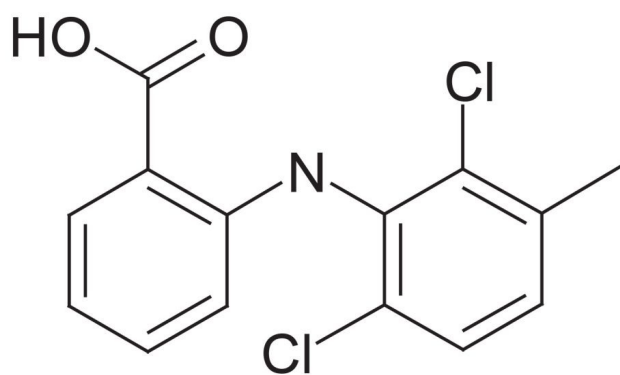
Ibuprofen



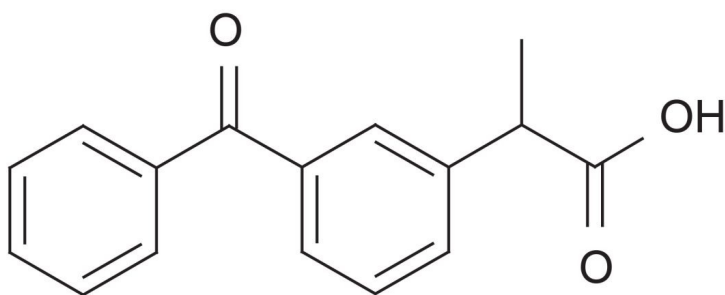
Naproxen



Phenylbutazone



Meclofenamic acid



Ketoprofen

Experimental

Conditions

Column:

Xterra MS C₁₈ 4.6 x 100 mm, 3.5 μm

Part Number: 186000436

Mobile phase A: 0.1% CH₃COOH

Mobile phase B: MeOH

Flow rate: 1.0 mL/min

Injection volume: 40 µL

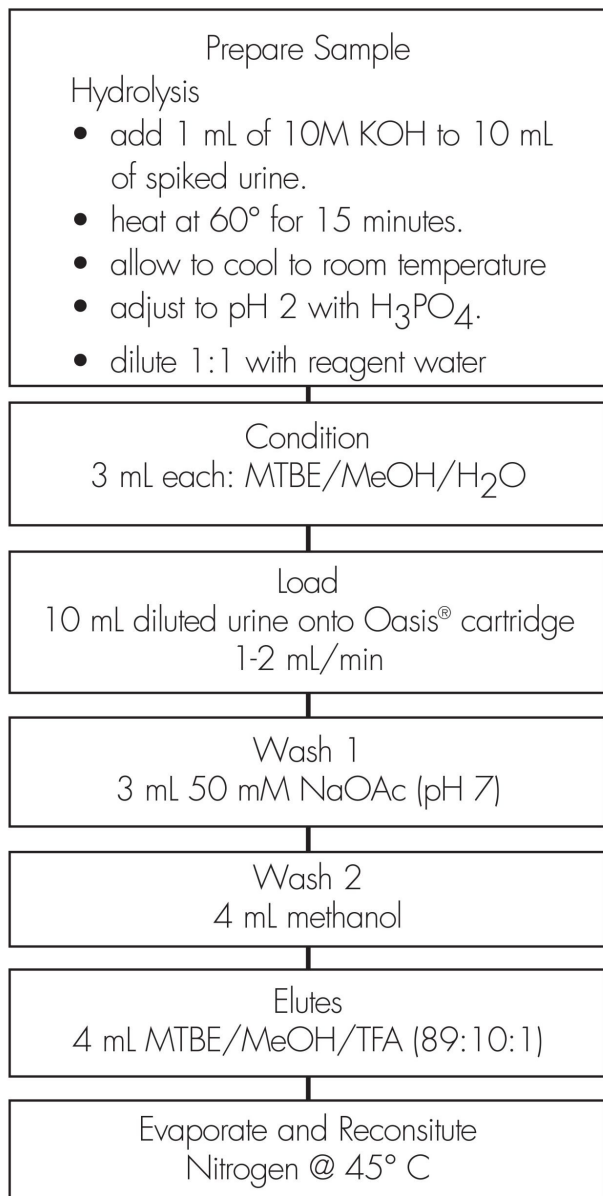
Detection: UV @ 221nm

Instrument: Alliance 2695, 2996 PDA

Gradient

Time (min)	Profile	
	%A	%B
0.0	50	50
2.0	50	50
20.0	40	60
30.0	10	90

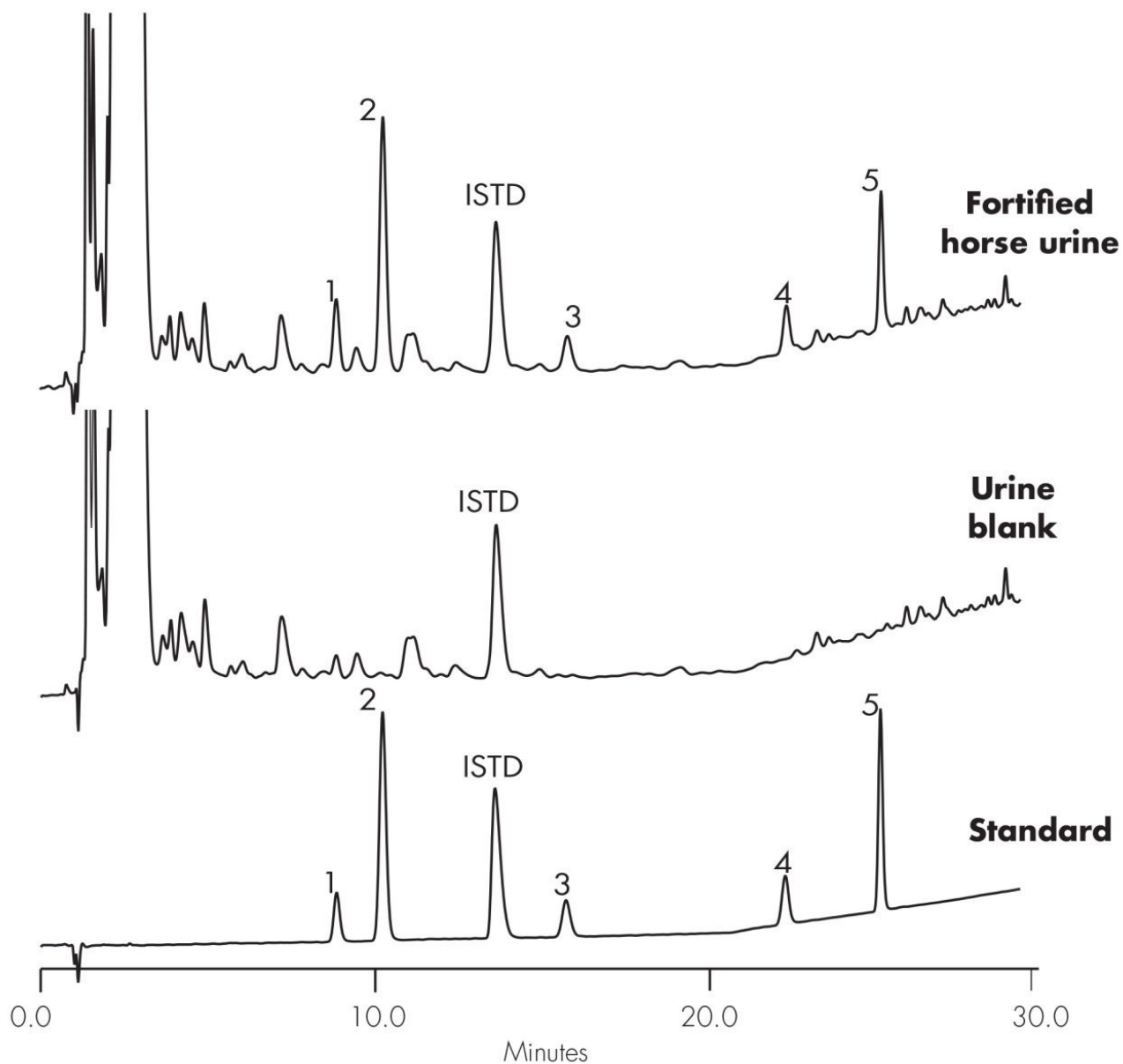
Oasis® Method
Oasis® MAX, 6 cc (150 mg)
Extraction Cartridge
Part Number 186000369



MTBE - methyl t-butyl ether
TFA - trifluoroacetic acid

Results and Discussion

LC/UV Analysis, 2 ppm



Featured Products

· [Alliance HPLC System <https://www.waters.com/534293>](https://www.waters.com/534293)

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