

Nota applicativa

## Acidic Veterinary Drugs in Horse Urine - LC-UV

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Waters Corporation



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

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### Abstract

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

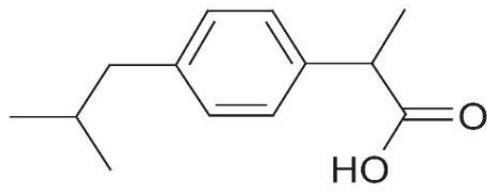
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## Introduction

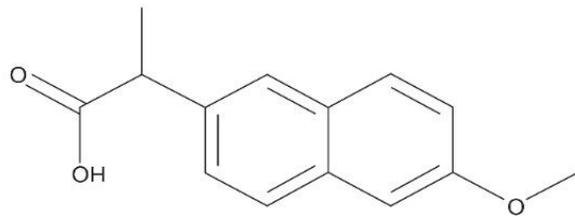
The compounds used in this study are –

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

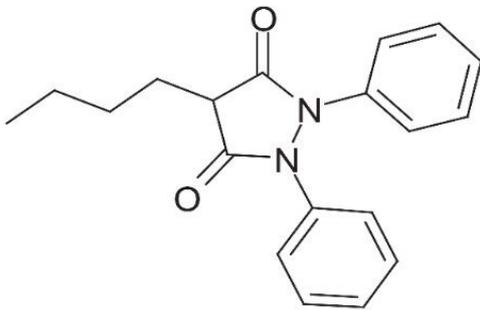
ISTD: Dichlorobenzoic acid



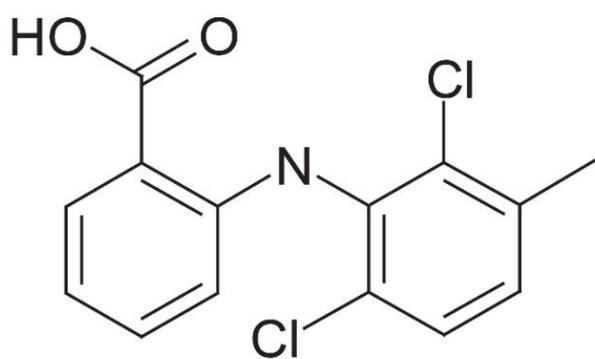
Ibuprofen



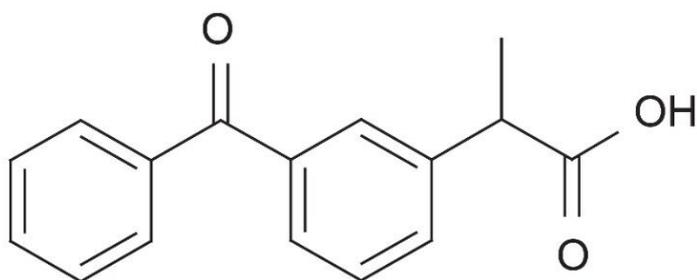
Naproxen



Phenylbutazone



Meclofenamic acid



Ketoprofen

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Experimental

Conditions

Column:

Xterra MS C<sub>18</sub> 4.6 x 100 mm, 3.5 μm

Part Number: 186000436

Mobile phase A: 0.1% CH<sub>3</sub>COOH

Mobile phase B: MeOH

Flow rate: 1.0 mL/min

Injection volume: 40 µL

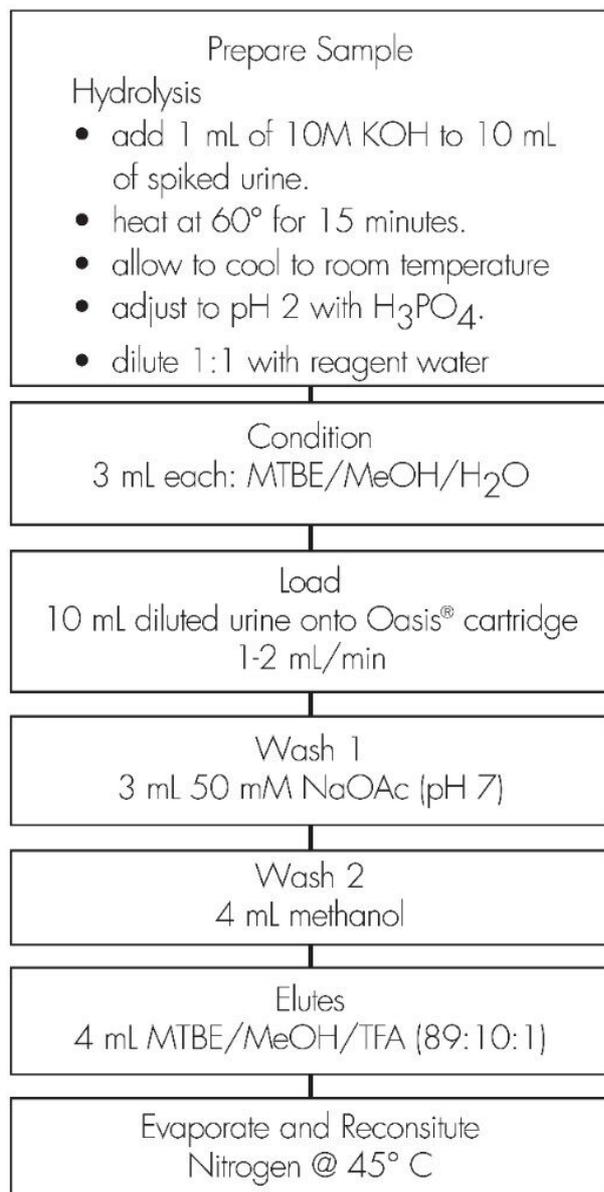
Detection: UV @ 221nm

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

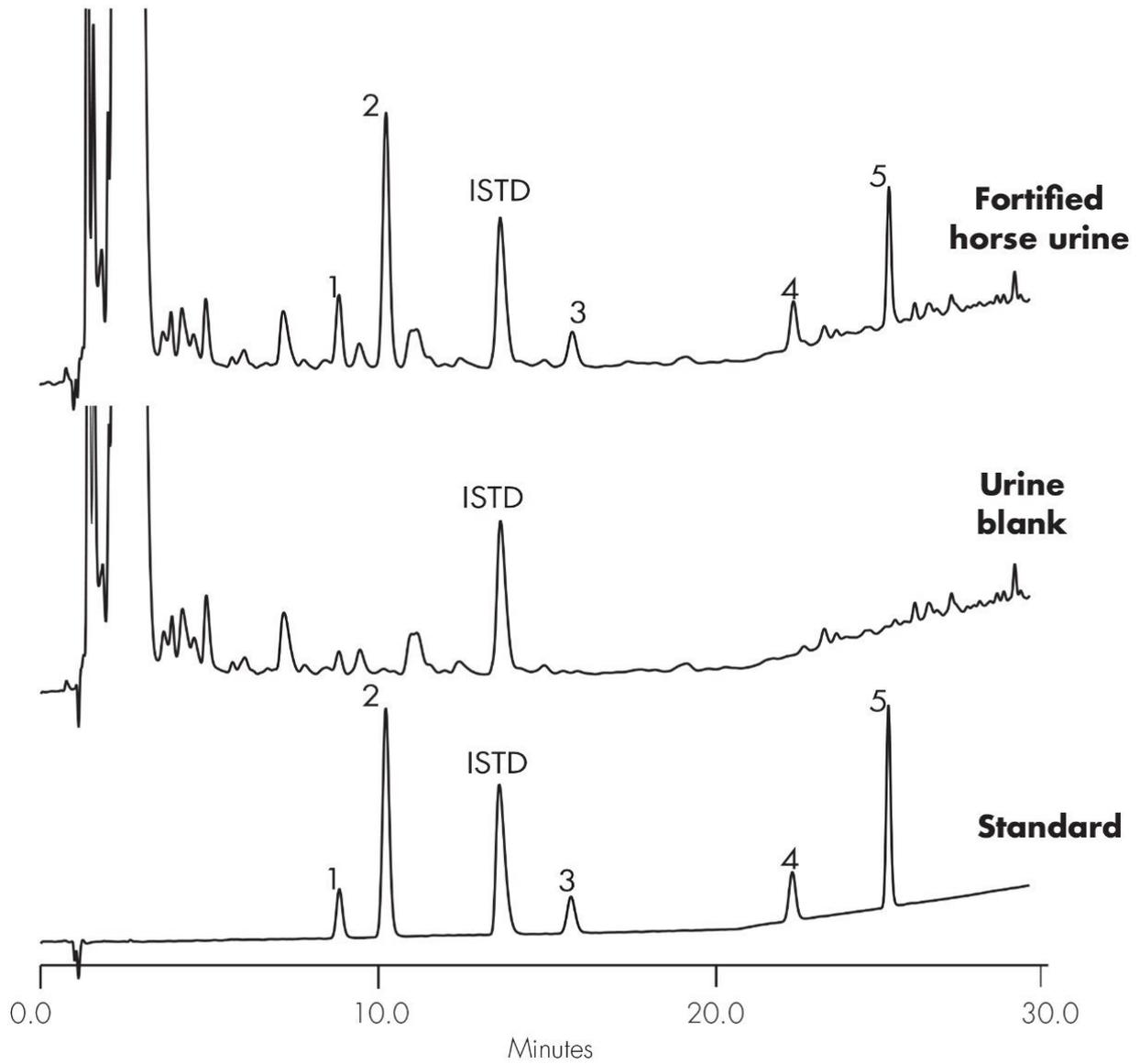


MTBE - methyl t-butyl ether  
TFA - trifluoroacetic acid

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## Results and Discussion

## LC/UV Analysis, 2 ppm



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## Featured Products

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

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