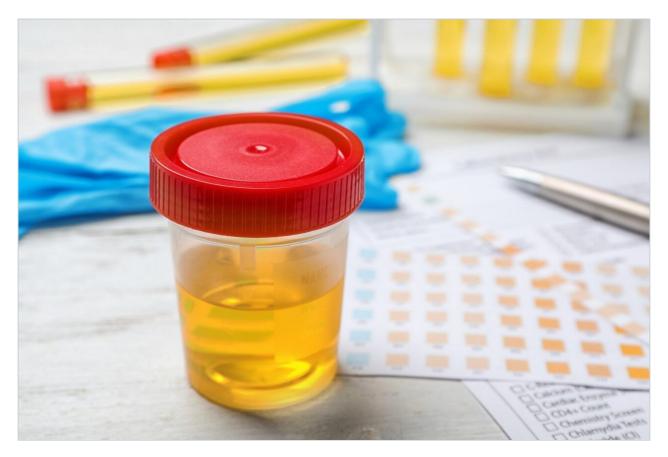
Waters™

응용 자료

Fractionation of Acidic from Base and Neutral Drugs in Urine

Waters Corporation



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

Abstract

This application brief demonstrates fractionation of acidic from base and neutral drugs in urine.

Introduction

he	compounds	used	ın	this	study	are	-

- 1. Nortriptyline
- 2. Secobarbital
- 3. Ketoprofen
- 4. Naproxen
- 5. Butylparaben (I.S.)

Experimental

LC Conditions

Column: Symmetry Shield, RP $_{18}$ 4.6 x 100 mm, 3.5 μm

Guard column: Sentry, 3.9 x 20 mm, 5 μ m

Part numbers: Column- 186000179, Guard- 186000701

Mobile phase: 20 mM KH₂PO₄/H₃PO₄, pH 2.7/CH₃OH, 52/48

v/v

Flow rate: 2 mL/min

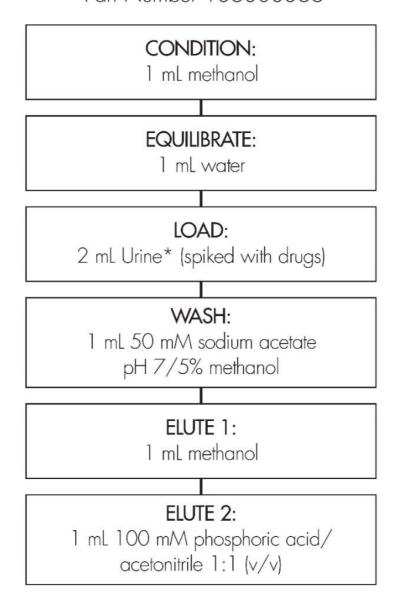
Injection volume: 10 μ L of extract with internal standard

Temperature: 30 °C

Detection: UV @ 214 nm

OASIS® MAX EXTRACTION METHOD

Oasis® MAX 1 cc/30 mg Extraction Cartridge Part Number 186000366

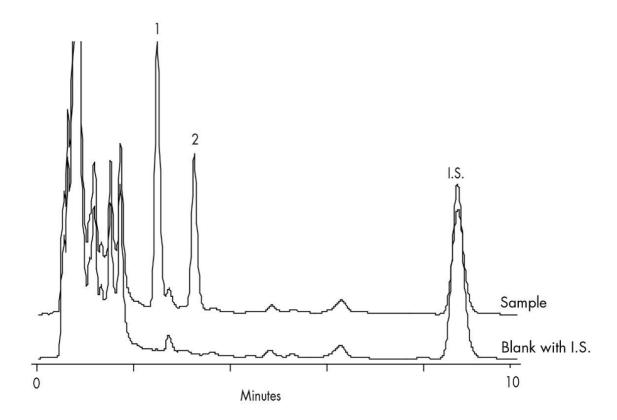


1 mL urine hydrolyzed (1M KOH 60 °C, 15 minutes) and adjusted to pH 2 with phosphoric acid; diluted 1:1 with 10 mM sodium acetate, pH 2.

Results and Discussion

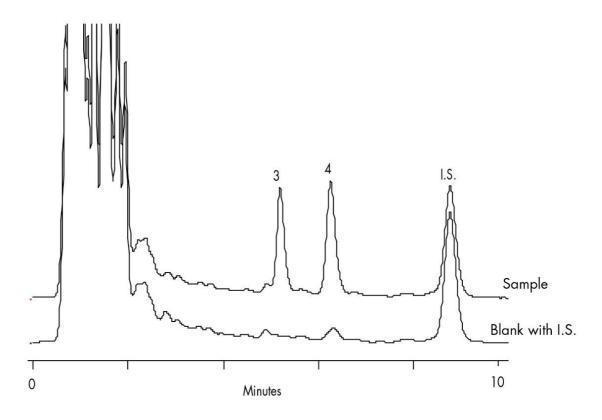
HPLC Chromatogram of Elute 1 (Basic and Neutral Drugs)

ELUTE 1 (BASIC AND NEUTRAL DRUGS)



HPLC Chromatogram of Elute 2 (Acidic Drugs)

ELUTE 2 (ACIDIC DRUGS)



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