

Application Note

Nalidixic Acid Antibiotics, Isocratic – 4.6 x 20 mm Intelligent Speed Separation

Waters Corporation



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

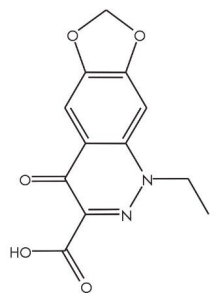
Abstract

This application brief demonstrates analysis of nalidixic acid antibiotics.

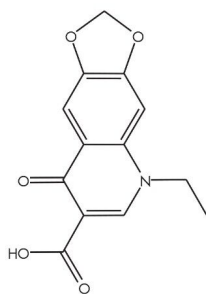
Introduction

The compounds used in this study are –

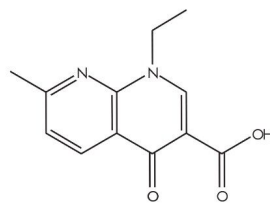
1. Cinoxacin
2. Oxolinic Acid
3. Nalidixic Acid



Cinoxacin



Oxolinic acid



Nalidixic acid

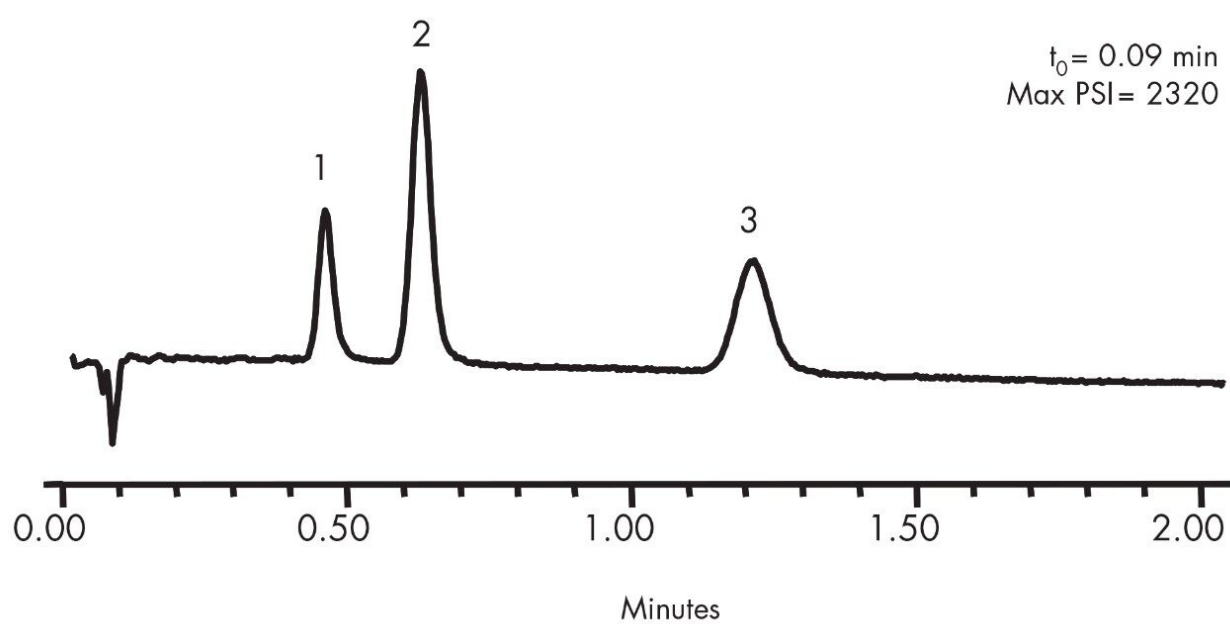
Experimental

Conditions

Column:	Atlantis dC ₁₈ , 4.6 x 20 mm /S, 3 µm, (p/n: 186002062)
Mobile phase A:	Water
Mobile phase B:	Methanol

Mobile phase C:	Acetonitrile
Mobile phase D:	1% HCOOH, pH 2.23
Flow rate:	4 mL/min
Isocratic mobile-phase composition:	55% A, 30% B, 5% C, 10% D
Injection volume:	5 µL
Sample concentration:	5 µg/mL
Temperature:	30 °C
Detection:	UV @ 254 nm
Instrument:	Waters Alliance 2965 Separations Module with Waters 2996 PDA

Results and Discussion



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