Waters™

응용 자료

Nalidixic Acid Antibiotics by LC-MS, 2.0 Minute Gradient – 2.1 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 details on the analysis of nalidixic acid antibiotics by LC-MS.

Introduction

Compound	MW
1. Cinoxacin	262.2
2. Oxolinic Acid	261.2
3. Nalidixic Acid	232.2

Cinoxacin

Oxolinic acid

Nalidixic acid

Conditions

Column:	Atlantis dC ₁₈ , 2.1 x 20 mm IS, 3.0 μ m, (P/N: 186002058)
Mobile phase A:	Water
Mobile phase B:	Methanol
Mobile phase C:	1% HCOOH in Water
Flow rate:	0.4 mL/min
Injection volume:	2 μL
Sample concentration:	10 μg/mL
Temperature:	30°C

Alliance 2795 and Waters ZQ

Gradient

Instrument:

Time	Profile		
(min)	%A	%B	%C
0.0	60	30	10
2.0	40	50	10

MS Conditions

Waters ZQ

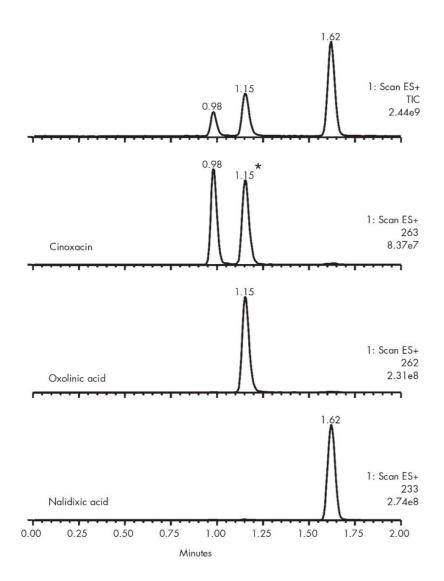
ES+

Capillary (kV):	3.5
Cone (V):	5.0
Extractor:	3.0
RF lens:	0.1
Source temp. (°C):	150
Desolvation temp. (°C):	400
Cone gas flow (L/Hr):	50
Desolvation gas fLow(L/Hr):	500
LM resolution:	15
HM resolution:	15
lon energy:	0.5
Multiplier (V):	650

Results and Discussion

The top figure is the total ion current, followed by the extracted ion signals for each of the three analytes.

^{*}The "extra" peak in the cinoxacin panel is the isotope from oxolinic acid.



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

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