

Nalidixic Acid Antibiotics: SunFire Intelligent Speed Separation

Waters Corporation

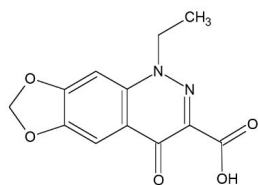


Abstract

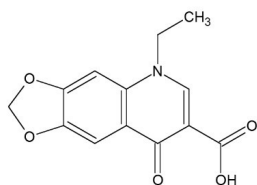
This application brief highlight the SunFire *IS* Column separation of antibiotics using MS detection.

Introduction

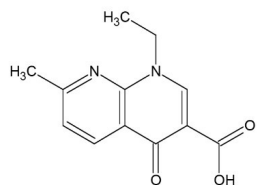
Compounds used in this study are shown below.



Cinoxacin



Oxolinic acid



Nalidixic acid

Experimental

Conditions

Column:	SunFire C ₁₈ 2.1 x 20 mm <i>IS</i> , 3.5 μm (p/n: 186002531)
Mobile phase A:	Water
Mobile phase B:	MeOH
Mobile phase C:	1.0 % HCOOH in water
Flow rate:	0.4 mL/min
Injection volume:	2 μL
Sample concentration:	10 μg/mL in 50:50 Acetonitrile/ water
Temperature:	30 °C
Instrument:	Waters AutoPurification System

Gradient

Time (min)	Profile		
	%A	%B	%C
0.0	60	30	10
2.0	40	50	10
3.0	60	30	10
5.0	60	30	10

ZQ Conditions

ES+

Capillary (kV): 3.5

Cone (V): 50

Extractor: 3

RF Lens: 0.1

Source temp. (oC): 150

Desolvation temp. (oC): 400

Cone Gas Flow (L/Hr): 50

Desolvation Gas Flow (L/Hr): 500

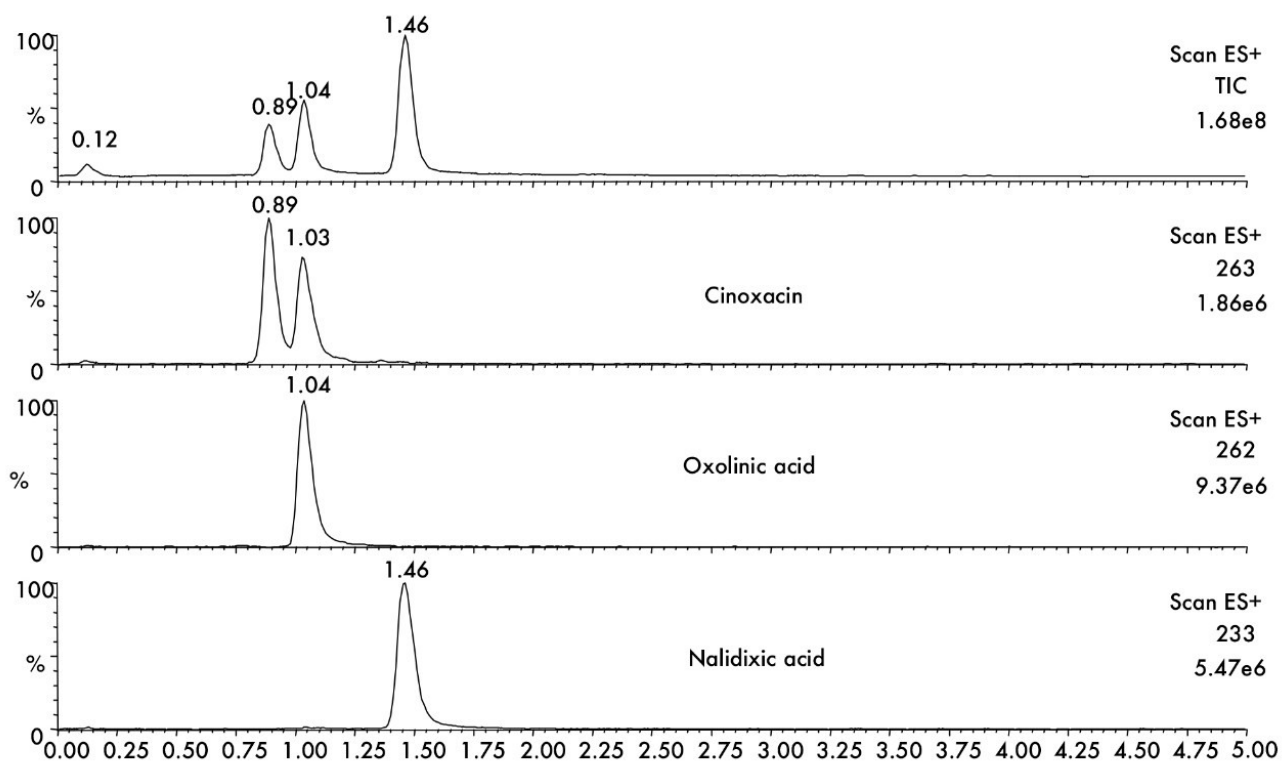
LM resolution: 15

HM Resolution: 15

Ion energy: 0.5

Multiplier (V): 650

Results and Discussion



Featured Products

· [Alliance HPLC <https://www.waters.com/514248>](https://www.waters.com/514248)

WA41894, March 2005



© 2021 Waters Corporation. All Rights Reserved.