

NALIDIXIC ACID ANTIBIOTICS BY LC/MS

5.0 minute gradient, 2.1 x 20 mm *IS*TM separation

LC CONDITIONS

Column:	Atlantis TM dC ₁₈ , 2.1 x 20 mm <i>IS</i> TM , 3.0 µm, (P/N: 186002058)		
Mobile Phase A:	Water		
Mobile Phase B:	Methanol		
Mobile Phase C:	1% HCOOH in Water		
Flow Rate:	0.2 mL/min		
Gradient:	Time	Profile	
	(min)	%A	%B
	0.0	60	30
	5.0	40	50
Injection Volume:	5 µL		
Sample concentration:	10 µg/mL		
Temperature:	30°C		
Instrument:	Alliance [®] 2795 and Waters ZQ [™]		

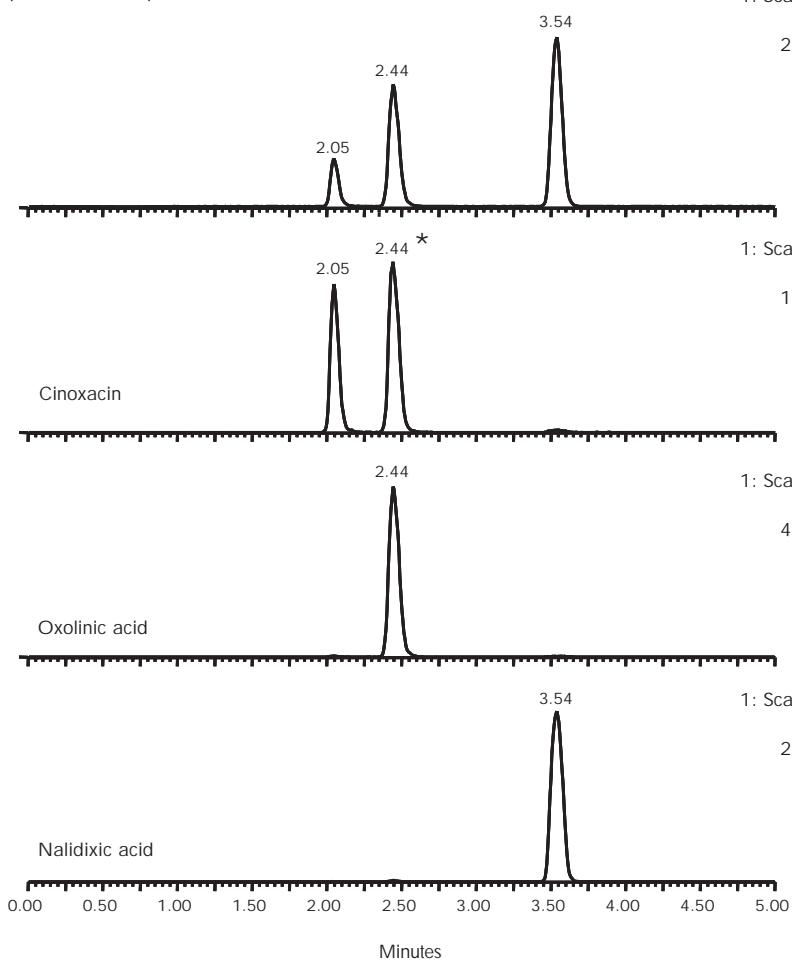
The top figure is the total ion current, followed by the extracted ion signals for each of the three analytes.

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

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
Ion Energy	0.5
Multiplier (V)	650

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

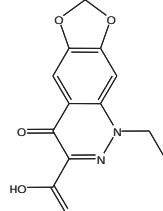


1: Scan ES+
TIC
2.94e9

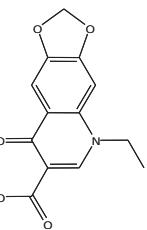
1: Scan ES+
263
1.32e8

1: Scan ES+
262
4.07e8

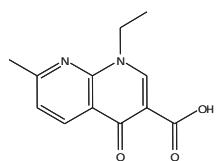
1: Scan ES+
233
2.91e8



Cinoxacin



Oxolinic acid



Nalidixic acid