NALIDIXIC ACID ANTIBIOTICS BY LC/MS

2.0 minute gradient, 2.1 x 20 mm *IS*™ Separation

CONDITIONS

Column:	Atlantis™ dC_{18}, 2.1 x 20 mm *IS*™, 3.0 µm, (P/N: 186002058)			
Mobile Phase A:	Water			
Mobile Phase B:	Methanol			
Mobile Phase C:	1% HCOOH in Water			
Flow Rate:	0.4 mL/min			
Gradient:	Time		Profile	
	(min)	%A	%B	%C
	0.0	60	30	10
	2.0	40	50	10
Injection Volume:	2 µL			
Sample concentration:	10 µg/mL			
Temperature:	30˚C			
Instrument:	Alliance® 2795 and Waters ZQ™			

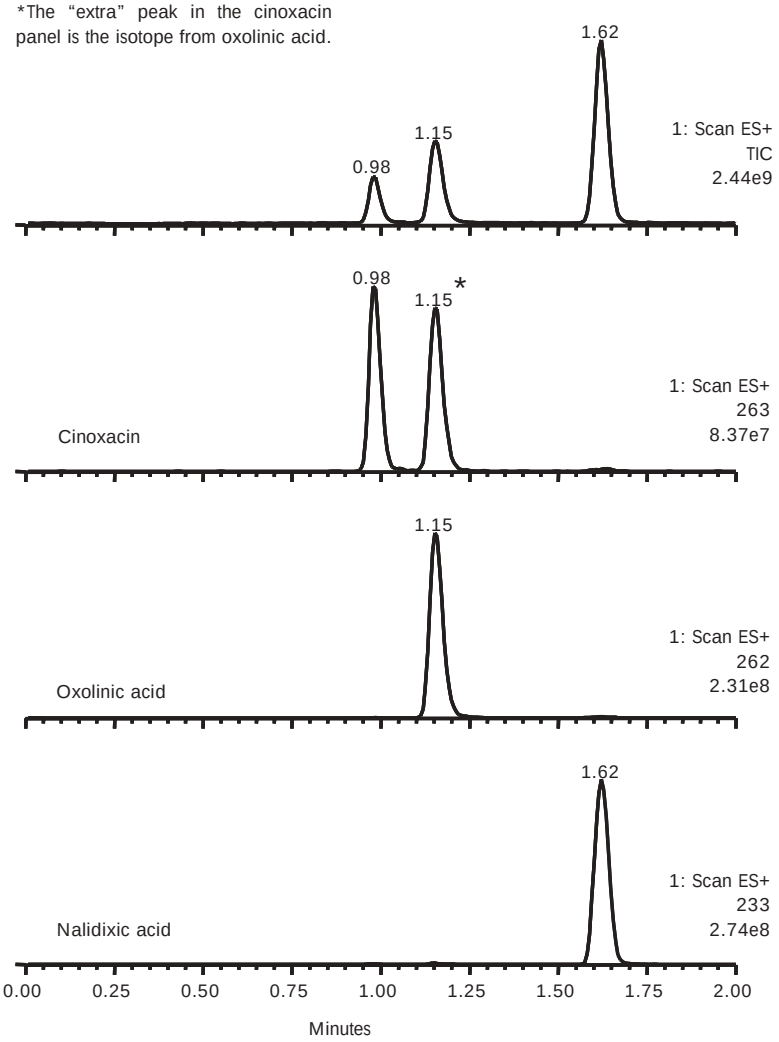
MS CONDITIONS

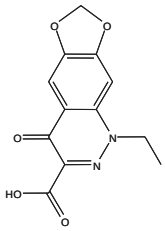
Waters ZQ™	
ES+	
Capillary (kV)	3.5
Cone (V)	5.0
Extractor	3.0
RF Lens	0.1
Source Temp (˚C)	150
Desolvation Temp (˚C)	400
Cone Gas Flow (L/Hr)	50
Desolvation Gas FLow(L/Hr)	500
LM Resolution	15
HM Resolution	15
Ion Energy	0.5
Multiplier (V)	650

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

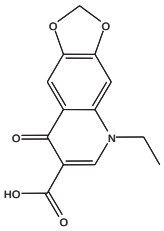
The top figure is the total ion current, followed by the extracted ion signals for each of the three analytes.

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

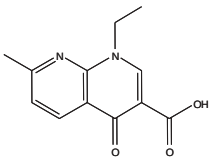




Cinoxacin



Oxolinic acid



Nalidixic acid