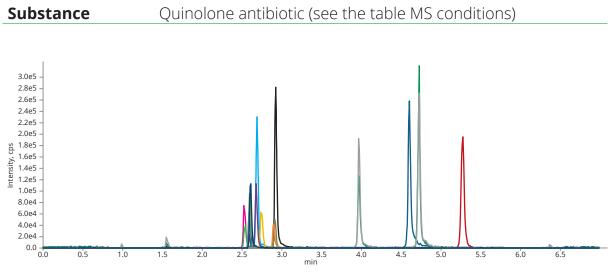
APPLICATION LIST #410

Quinolones

A Quinolone antibacterials are drugs used in veterinary medicine to treat bacterial infections. The analysis of residual amounts of drugs in food is important for monitoring the quality control of products of animal origin.

This application clearly shows the separation of 16 quinolones using the LC/MS technique.



Quinolones in muscle on ARION® UHPLC column

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APPLICATION LIST #410

Quinolones

N.P.D.

UHPLC conditions

Column	Arion [®] Plus C18, 1.7 μm				
Dimensions	100 mm × 2.1 mm				
Part number	ARI-5720-BI21				
Mobile phase	0.1% Formic acid in ACN / 0.1% formic acid in water (A / B)				
Gradient elution	Retention (min)	%A	%B		
	0	10	90		
	3	51	49		
	4	50	50		
	5	49	51		
	5.5	48	52		
	5.6	10	90		
	7	10	90		
Flow rate	0.3 ml/min				
Temperature	30 °C				
Detection	LC-MS/MS (Dionex UltiMate 3000 UHPLC / AB SCIEX QTRAP 5500)				
Injection volume	10 µl				
Analytes	Quinolones listed in the table MS conditions				

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APPLICATION LIST #410

Quinolones

N.P.D.

MS conditions

Analyte	Retention time (min)	Precursor (m/z)	CAS Number
Enoxacin	2.54	321.0	74011-58-8
Marbofloxacin	2.55	362.9	115550-35-1
Norfloxacin	2.60	320.0	70458-96-7
Ofloxacin	2.61	361.9	82419-36-1
Fleroxacin	2.62	370.0	79660-72-3
Ciprofloxacin	2.64	332.0	85721-33-1
Lomefloxacin	2.69	351.9	98079-51-7
Danofloxacin	2.70	358.0	112398-08-0
Enrofloxacin	2.76	360.0	93106-60-6
Sarafloxacin	2.91	386.0	98105-99-8
Sparfloxacin	2.93	392.9	110871-86-8
Difloxacin	2.94	400.0	98106-17-3
Oxolinic acid	3.97	262.0	14698-29-4
Nalidixic acid	4.60	232.9	389-08-2
Flumequine	4.72	261.9	42835-25-6
Cinchophen	5.27	250.0	132-60-5

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