

FLUOROQUINOLONE ANTIBIOTICS IN BEEF KIDNEY (LC/MS/MS)

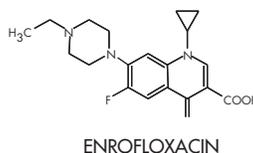
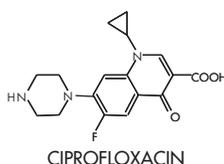
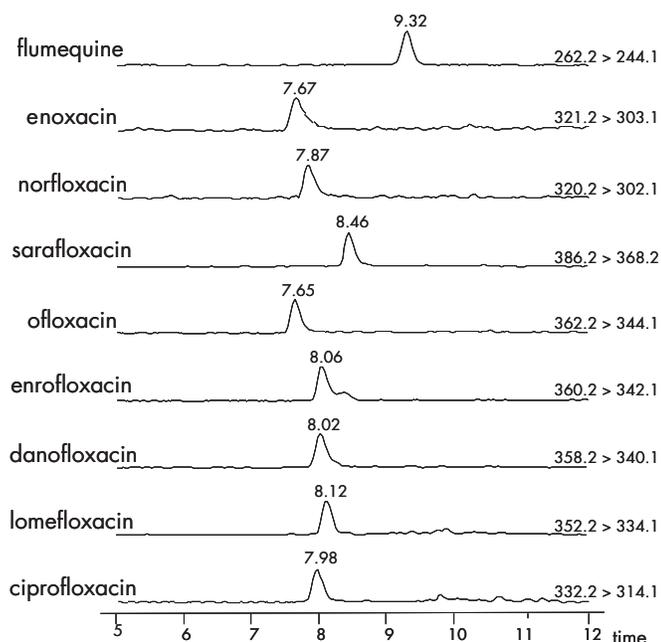
LC CONDITIONS

COLUMN: Atlantis[™] d C₁₈, 4.6 x 150 mm, 5 μm
 PART NUMBER: 1860001344
 MOBILE PHASE A: 0.2% NFPA* in water
 MOBILE PHASE B: Methanol
 GRADIENT: Linear, 40% B to 80% B in 10 minutes
 FLOW RATE: 0.8 mL/min
 INJECTION VOLUME: 50 μL
 TEMPERATURE: 30 °C
 INSTRUMENT: Alliance[®] 2695 Separations Module

*NFPA: nonafluoropentanoic acid (NFPA) - C₄F₉COOH

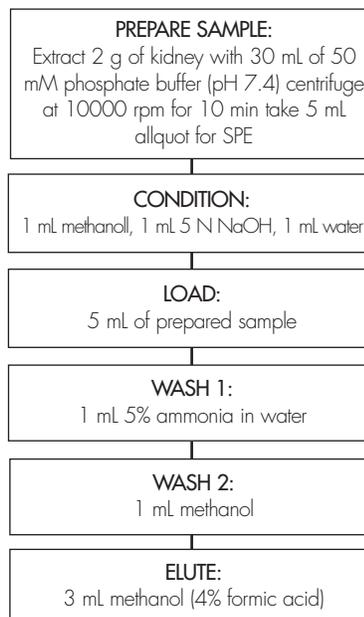
MS CONDITIONS

INSTRUMENT: Quattro[™]
 ION SOURCE: APCI+
 MODE: Multiple Reaction Monitoring
 CORONA: 0.8 V
 SOURCE TEMP: 150 °C
 DESOLVATION TEMP: 625 °C
 CONE GAS (N₂): 175 L/Hr
 DESOLVATION GAS (N₂): 250 L/Hr
 COLLISION GAS: Argon



OASIS[®] MAX EXTRACTION METHOD

Oasis[®] MAX Extraction Cartridge, 6 cc/150 mg, 30μm
 Part Number: 186000369



COMPOUND	10μg/kg % Recovery (± % RSD)	50μg/kg % Recovery (± % RSD)
flumequin	74(± 9.1)	70(± 17)
enoxacin	63(± 5.7)	65(± 13)
norfloxacin	64(± 8.1)	65(± 9.9)
sarafloxacin	68(± 9.5)	71(± 9.8)
ofloxacin	72(± 7.0)	80(± 8.6)
enrofloxacin	73(± 5.3)	76(± 8.9)
danofloxacin	64(± 8.8)	68(± 8.2)
lomefloxacin	76(± 6.9)	76(± 7.9)
ciprofloxacin	70(± 8.7)	62(± 6.1)

External standard calculation
 Results calculated against standards in matrix (n=5)

COMPOUND	MW	(MRM)	Cone(V)	Coll.
flumequin	261	262 ± 244	50	20
enoxacin	320	321 ± 303	50	20
norfloxacin	319	320 ± 302	50	23
sarafloxacin	385	386 ± 368	50	25
ofloxacin	361	362 ± 344	50	20
enrofloxacin	359	360 ± 342	50	20
danofloxacin	357	358 ± 340	50	25
lomefloxacin	351	352 ± 334	50	20
ciprofloxacin	331	332 ± 214	50	20