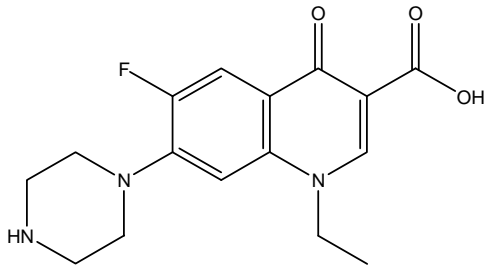
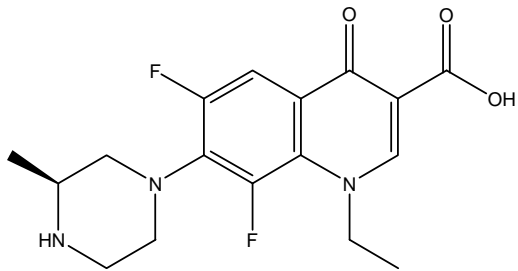


フルオロキノロン系抗菌剤 Fluoroquinolone antibacterial agents

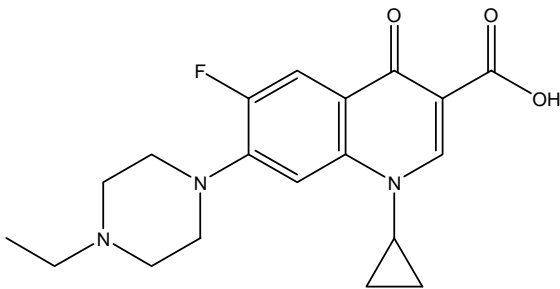
フルオロキノロン系抗菌剤は、カルボン酸をもつ酸性化合物です。6種のフルオロキノロン系抗菌剤を、CAPCELL PAK C₁₈ MGIII-H S3 (2.0 mm i.d. x 50 mm) を用いて分析した例を示します。良好なピーク形状で分離されました。



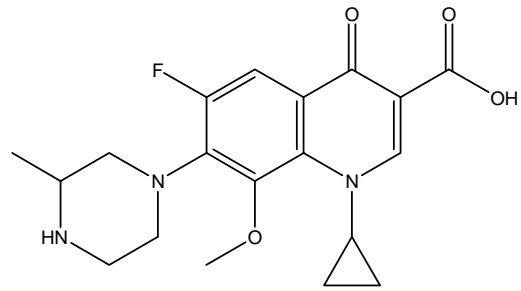
1. ノルフロキサシン (50 µg/mL)
Norfloxacin (M.W. 319.3)



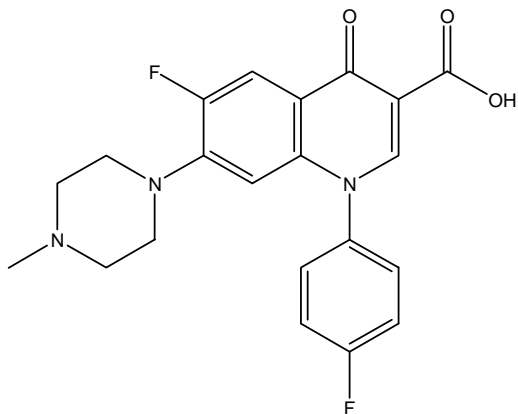
2. ロメフロキサシン (50 µg/mL)
Lomefloxacin (M.W. 351.4)



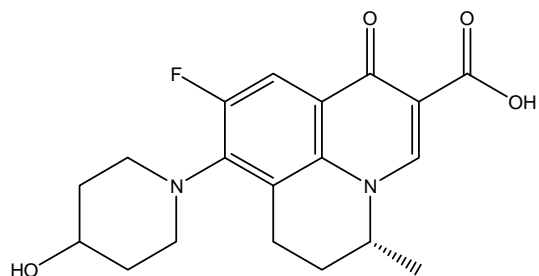
3. エンフロキサシン (50 µg/mL)
Enrofloxacin (M.W. 359.4)



4. ガチフロキサシン (50 µg/mL)
Gatifloxacin (M.W. 375.4)

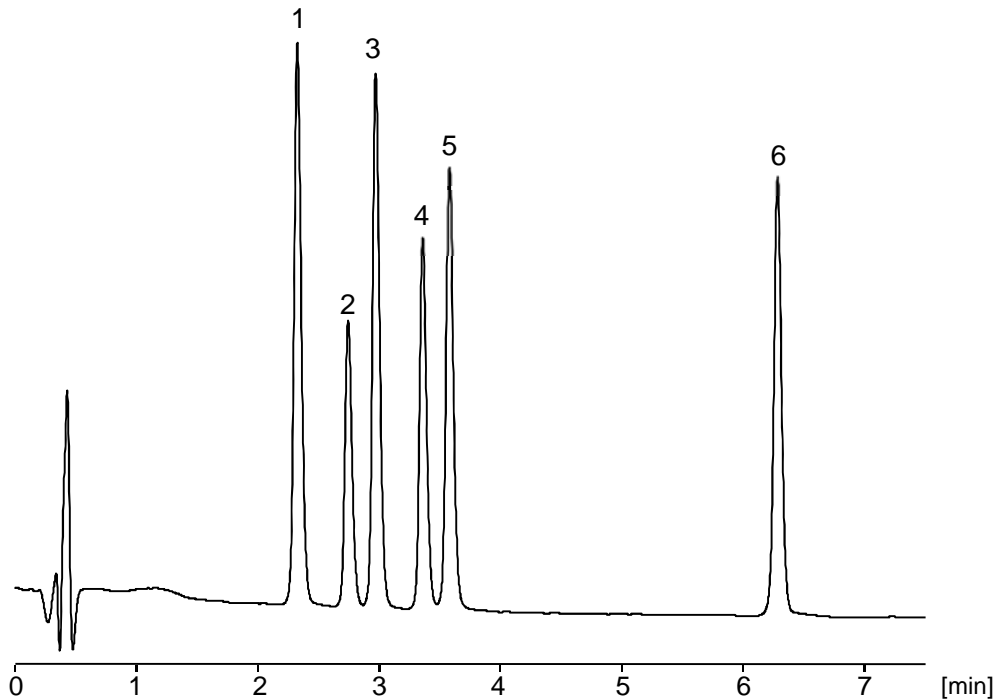


5. ジフロキサシン (50 µg/mL)
Difloxacin (M.W. 399.4)



6. ナジフロキサシン (50 µg/mL)
Nadifloxacin (M.W. 360.4)

1. Norfloxacin
2. Lomefloxacin
3. Enrofloxacin
4. Gatifloxacin
5. Difloxacin
6. Nadifloxacin



【HPLC Conditions】

Column : CAPCELL PAK C₁₈ MGIII-H S3 ; 2.0 mm i.d. x 50 mm
 Mobile phase : A) 10 mmol/L HCOONH₄, 0.1 vol% HCOOH (pH 3.3)
 B) CH₃CN
 B 10 % (0 min) -> 40 % (7 min) -> 10 % (7.1 min) Gradient
 Flow rate : 400 μL/min
 Temperature : 40 °C
 Detection : PDA 254 nm
 Inj. vol. : 2 μL
 Sample dissolved in : Each standard was dissolved in CH₃OH at 1 mg/mL. An
 equivolume mixture of all the solutions was diluted with H₂O, so
 that concentration of each compound was 50 μg/mL.
 ※ 1 μg/mL = 1 ppm