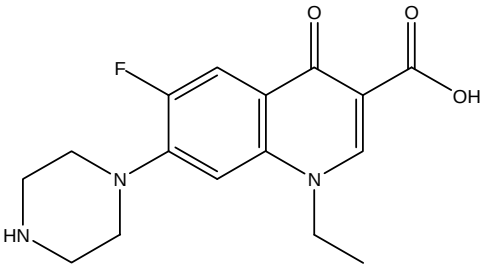
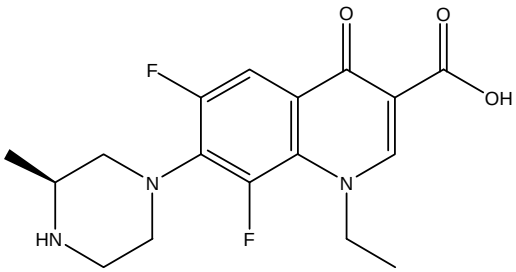
フルオロキノロン系抗菌剤　Fluoroquinolone antibacterial agents

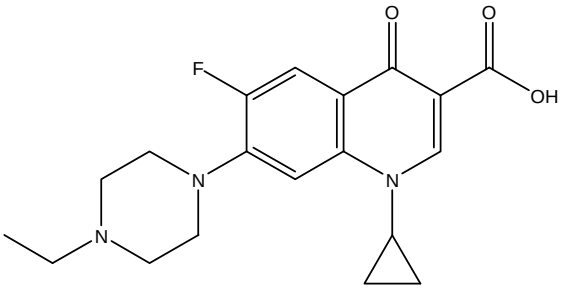
フルオロキノロン系抗菌剤は，カルボン酸をもつ酸性化合物です．6 種のフルオロキノロン系抗菌剤を，CAPCELL PAK C_{18} MGIII-H S3（2.0 mm i.d. x 50 mm）を用いて分析した例を示します．良好なピーク形状で分離されました．



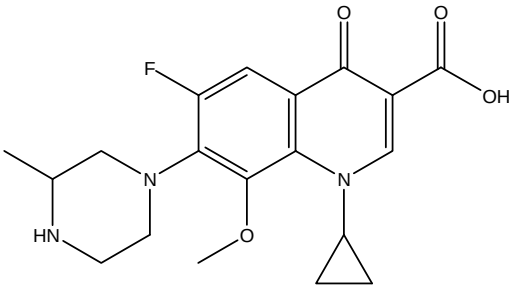
1. ノルフロキサシン (50 μg/mL)
   Norfloxacin (M.W. 319.3)



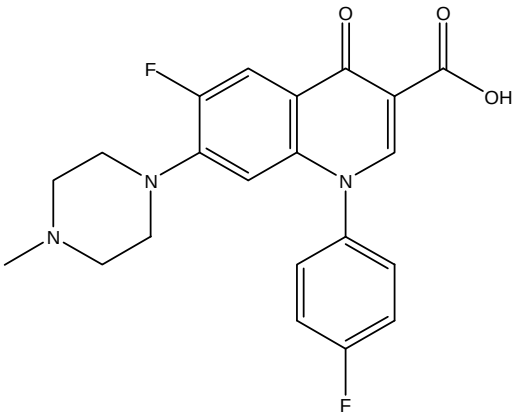
2. ロメフロキサシン (50 μg/mL)
   Lomefloxacin (M.W. 351.4)



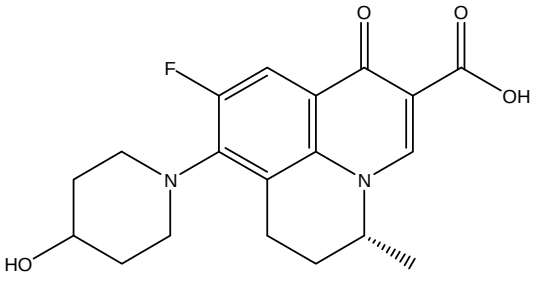
3. エンロフロキサシン (50 μg/mL)
   Enrofloxacin (M.W. 359.4)



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

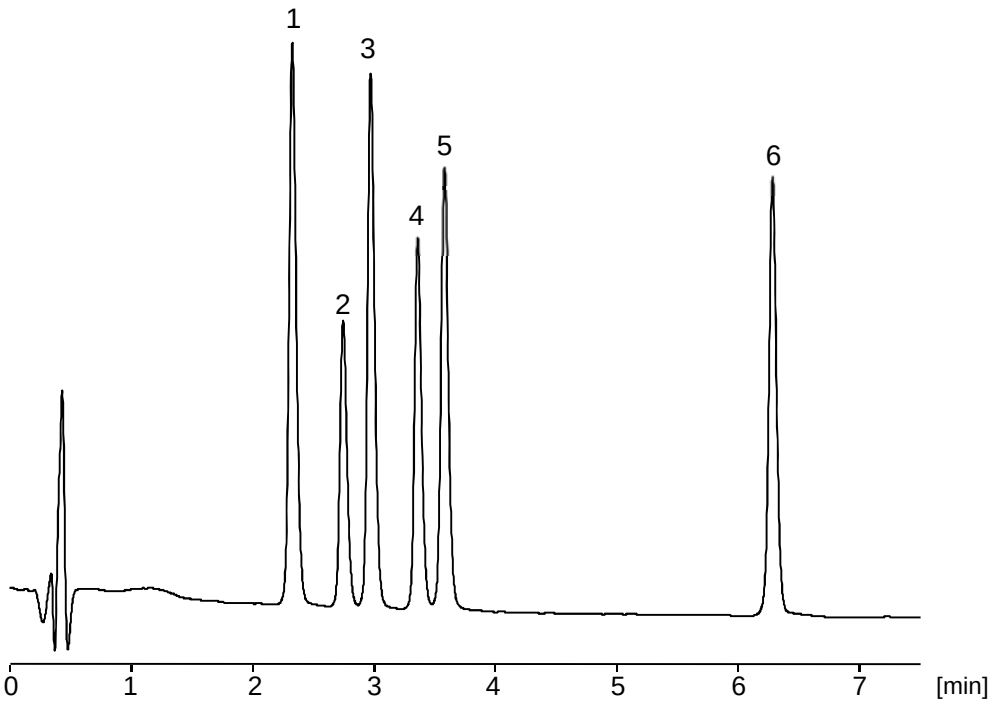


5. ジフロキサシン (50 μg/mL)
   Difloxacin (M.W. 399.4)



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 C_{18} MGIII-H S3 ; 2.0 mm i.d. x 50 mm
Mobile phase	: A) 10 mmol/L $HCOONH_4$, 0.1 vol% HCOOH (pH 3.3) B) CH_3CN 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 CH_3OH at 1 mg/mL. An equivolume mixture of all the solutions was diluted with H_2O, so that concentration of each compound was 50 μg/mL. ※ 1 μg/mL = 1 ppm