

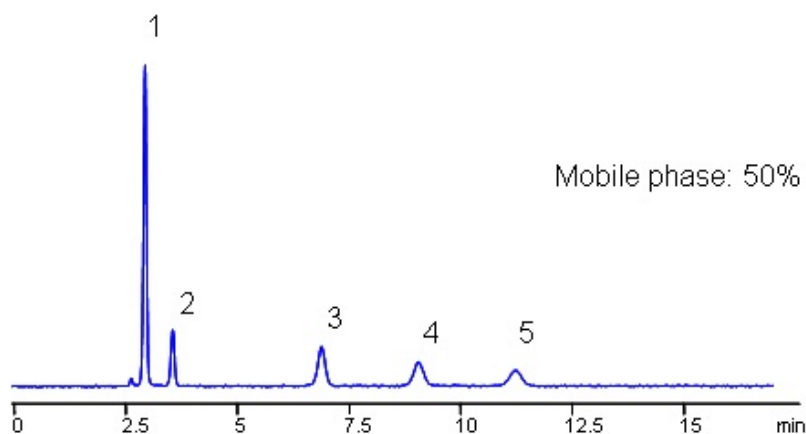
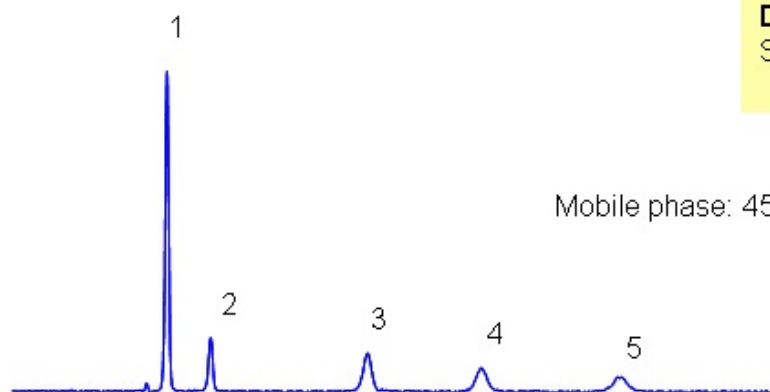
HPLC Separation of a Complex of Quinolone Antibiotics

https://sielc.com/HPLC_Separation_of_A_Complex_of_Quinolone_Antibiotics

Chromatogram

1. Oxolinic acid
2. Flumequine
3. Ciprofloxacin
4. Pefloxacin
5. Enrofloxacin

Column: Primesep 100
Size: 4.6 x 150 mm
Flow: 1.0 mL/min
Detection: UV 270 nm
Sample: 0.02mg/ml each compound
in 1:1 MeCN/water



Description

Quinolones are a group of synthetic broad-spectrum antibiotics with a wide variety of applications in medicine and veterinary sciences. Some quinolones have been found in food products including fish and shrimp. Primesep 100 was used to separate a mixture of quinolones and achieve baseline separation. Retention was controlled by adjusting acetonitrile in the mobile phase.

Method Parameters

Mobile Phase	MeCN
Buffer	H ₂ SO ₄
Flow Rate	1.0 ml/min
Detection	UV, 270 nm

Class of Compounds	Drug, Acid, Quinolone Antibiotics, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	Oxolinic Acid, Flumequine, Ciprofloxacin, Enrofloxacin, Pefloxacin

HPLC Column Used

Primesep 100, 4.6×150 mm, 5 µm, 100A

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)