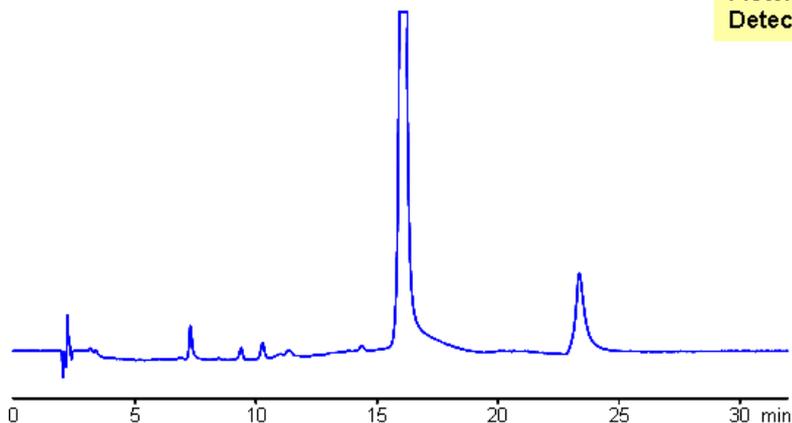


## Analysis of Antibiotic Flumequine and Related Impurities in Mixed-Mode Chromatography

**Column:** Obelisc R  
**Size:** 4.6 x 150 mm  
**Mobile phase:** MeCN gradient 5% to 30% in 10 min ,  
5 min hold, Formic acid gradient  
0.05% to 0.3% in 10 min, 5 min hold  
**Flow:** 1.0 mL/min  
**Detection:** UV 270 nm



The antibiotic Flumequine is typically used in veterinary medicine. Flumequine and related impurities have been found in animals later sold for meat. Analysis was performed by mixed-mode chromatography on Primesep D, a reverse-phase column with embedded basic ion-pairing groups and Obelisc R with multiple separation modes (RP,NP,IE).

SIELC has developed the Obelisc™ columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSC™). These cost-effective columns are the first of their kind to be commercially available and can replace multiple HPLC columns, including reversed-phase (RP), AQ-type reversed-phase, polar-embedded group RP columns, normal-phase, cation-exchange, anion-exchange, ion-exclusion, and HILIC (Hydrophilic Interaction Liquid Chromatography) columns. By controlling just three orthogonal method parameters - buffer concentration, buffer pH, and organic modifier concentration - users can adjust the column properties with pinpoint precision to separate complex mixtures.

### Method Parameters

Detection	UV Detection
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Quelle:

[https://sielc.com/Analysis\\_of\\_Antibiotic\\_Flumequine\\_and\\_Related\\_Impurities\\_in\\_Mixed-Mode\\_Chromatography](https://sielc.com/Analysis_of_Antibiotic_Flumequine_and_Related_Impurities_in_Mixed-Mode_Chromatography)