# Waters™

アプリケーションノート

# Fluoroquinolone Antibiotics in Beef Kidney - Tandem Oasis MAX-MCX Method

**Waters Corporation** 



This is an Application Brief and does not contain a detailed Experimental section.

#### **Abstract**

This application brief demonstrates analysis of fluoroquinolone antibiotics in beef kidney - Tandem Oasis MAX-MCX method.

### Introduction

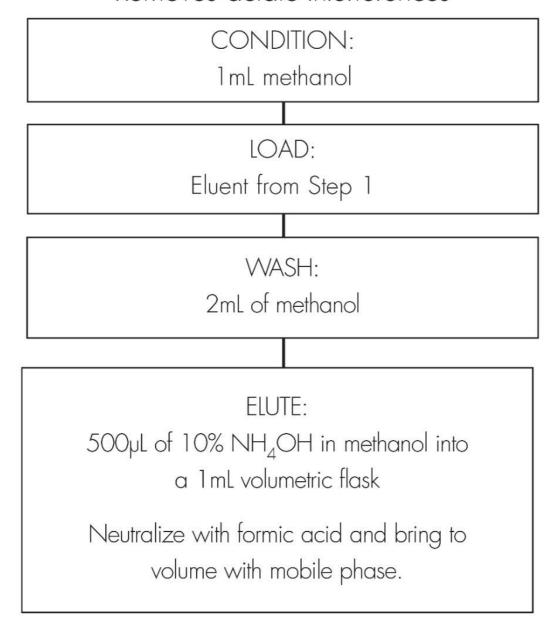
The compounds used in this study are - Ciprofloxacin and Enrofloxacin.

## Experimental

# STEP 1: OASIS® MAX 6 cc (150 mg) Cartridge Removes basic and neutral interferences

CONDITION: 1 mL methanol, 1 mL 5 N NaOH, 1 mL water LOAD: 5 mL of prepared sample WASH 1: 1 mL 5% ammonia in water WASH 2: 1 mL methanol **ELUTE:** 2 mL of 0.2N HCl in methanol

# STEP 2: OASIS® MCX 1 cc (30 mg) Cartridge Removes acidic interferences



**Mobile phase Conditions** 

Column:

Atlantis dC<sub>18</sub> 4.6 x 150 mm, 5 μm

Mobile phase:

73% 0.2% NFPA (nonafluoropentanoic acid)

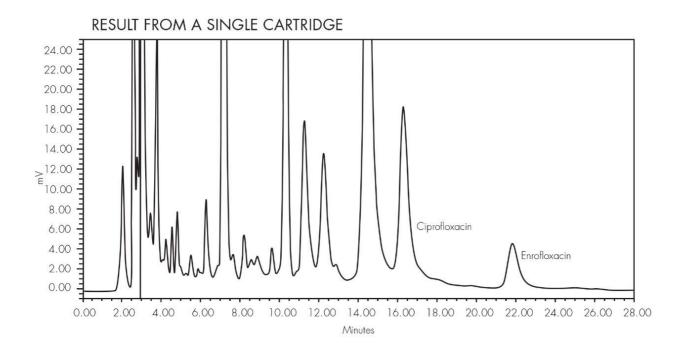
4% MeOH

23% ACN

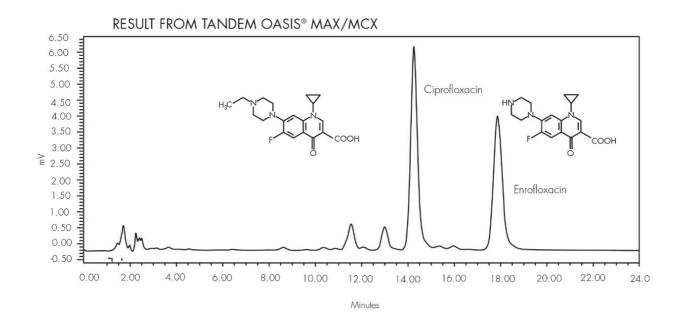
T=30

#### Results and Discussion

# HPLC Chromatogram of Fluoroquinolone Antibiotics in Beek Kidney by Single Cartridge Extraction



# HPLC Chromatogram of Fluoroquinolone Antibiotics in Beek Kidney by Tandem Oasis MAX/MCX Extraction



#### Conclusion

Comparison of results of Tandem Oasis MAX-MCX vs. Single Cartridge was carried out.

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