## Waters™

應用手冊

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

Waters Corporation



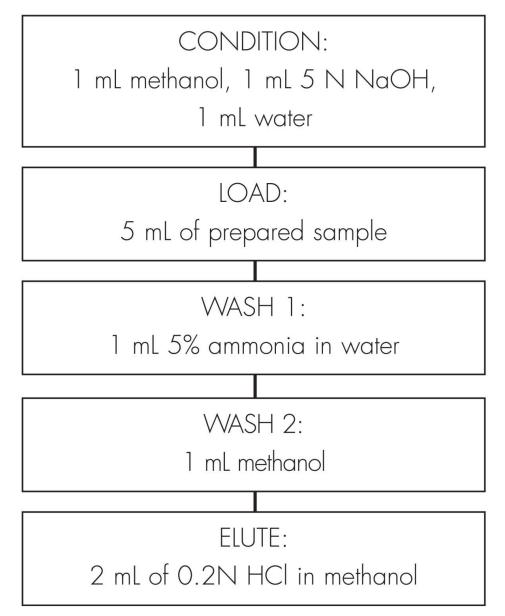
This is an Application Brief and does not contain a detailed Experimental section.

#### **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



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

CONDITION:

1 mL methanol

LOAD:

Eluent from Step 1

WASH: 2mL of methanol

#### **ELUTE:**

 $500\mu L$  of 10% NH $_4$ OH in methanol into a  $1\,mL$  volumetric flask

Neutralize with formic acid and bring to volume with mobile phase.

#### Mobile phase Conditions

Column: Atlantis dC<sub>18</sub> 4.6 x 150 mm, 5  $\mu$ m

Mobile phase:

73% 0.2% NFPA (nonafluoropentanoic acid)

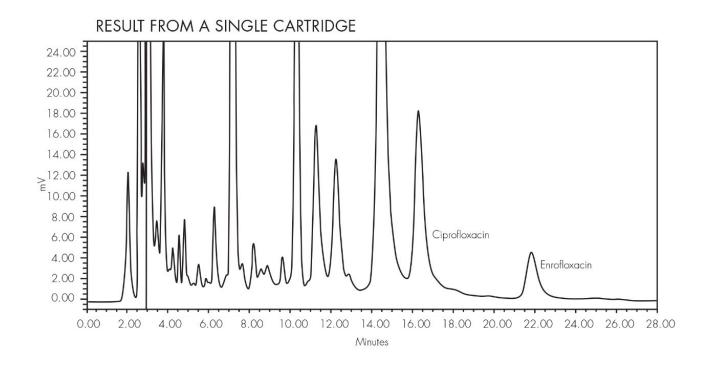
4% MeOH

23% ACN

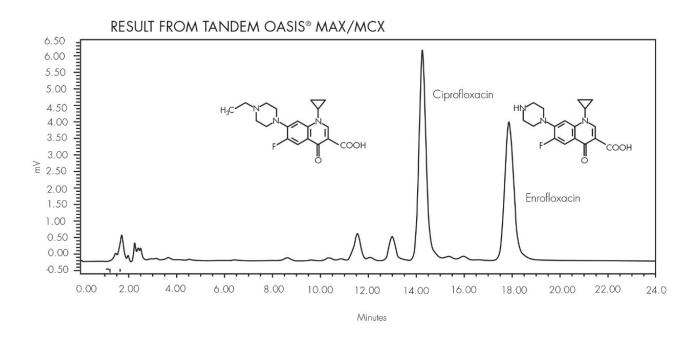
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#### Results and Discussion

# 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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WA31764.86, June 2003

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