

응용 자료

## 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

CONDITION:  
1 mL methanol

LOAD:  
Eluent from Step 1

WASH:  
2 mL of methanol

ELUTE:  
500 µL of 10% NH<sub>4</sub>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 µm

Mobile phase:

73% 0.2% NFPA (nonafluoropentanoic acid)

4% MeOH

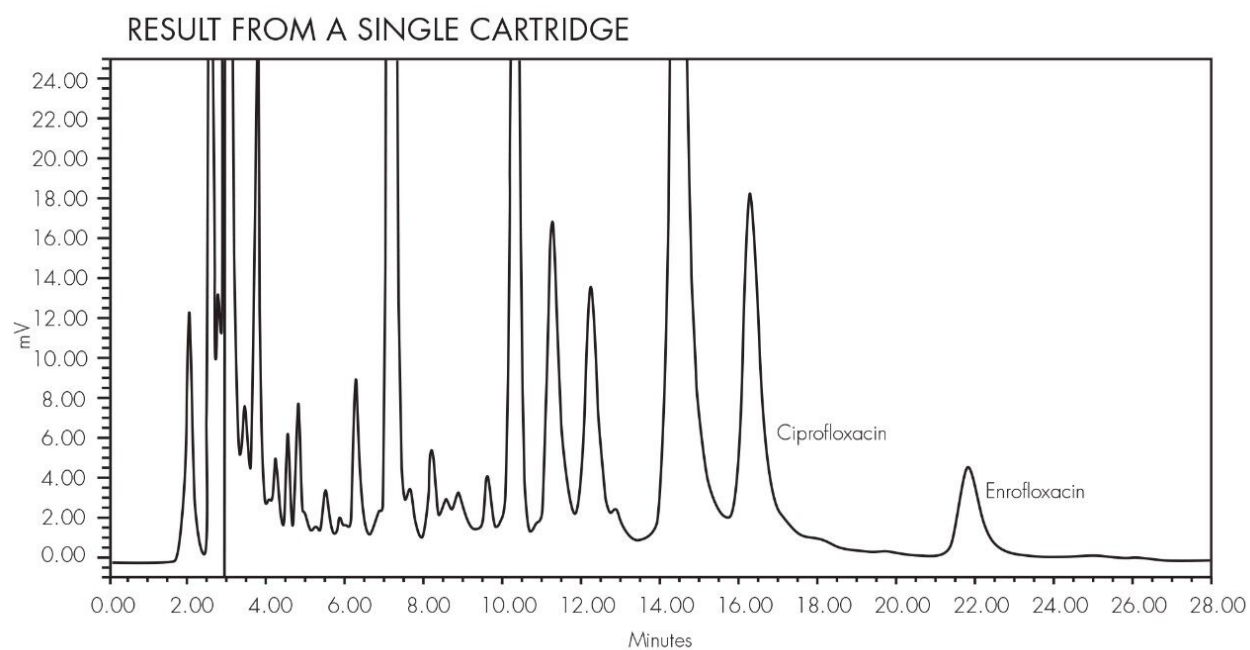
23% ACN

T=30

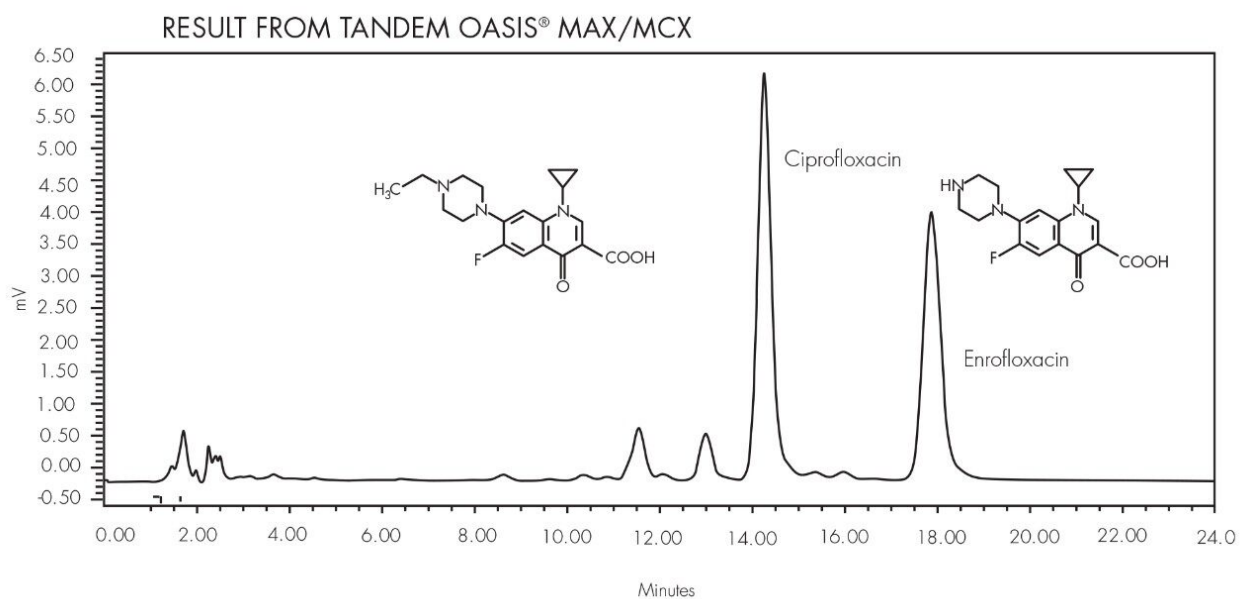
---

## 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.

---

## Featured Products

WA31764.86, June 2003

