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Application Note

Tetracyclines

Waters Corporation



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

Abstract

This application brief highlights the analysis of tetracyclines using Symmetry C_8 Columns.

Introduction

The compounds analyzed in this study are:

- 1. Doxycycline
- 2. Minocycline
- 3. Tetracycline

1. Doxycycline

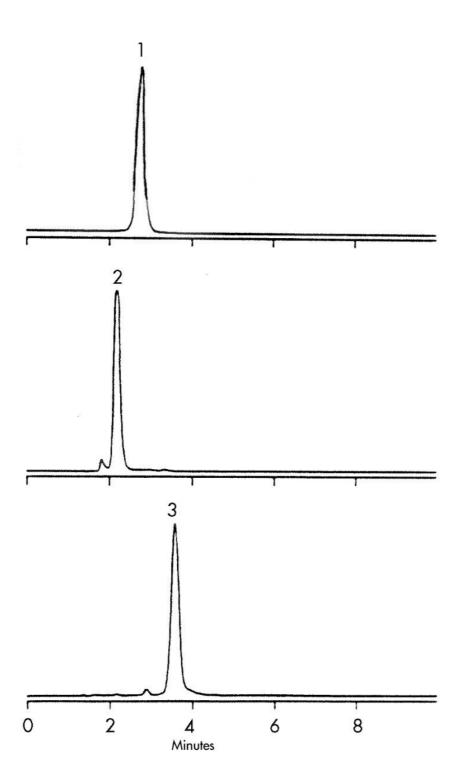
2. Minocycline

3. Tetracycline

HPLC Method

Column:	Symmetry C ₈ , 3.9 x 150 mm, 5 μm
Guard column:	Symmetry Guard Column 3.9 x 20 mm, 5 µm
Part numbers:	Column - WAT046970, Guard - WAT054250
Mobile phase:	10 mM sodium phosphate, pH 6.25/methanol 45:55
Flow rate:	1.0 mL/min
Injection volume:	20 μL of 500 μg/mL sample
Detection:	UV @ 280 nm
USP Tailing Factors 1. 1.05 2. 1.29 3. 1.14	

Results and Discussion



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