

Tetracyclines

Waters Corporation



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

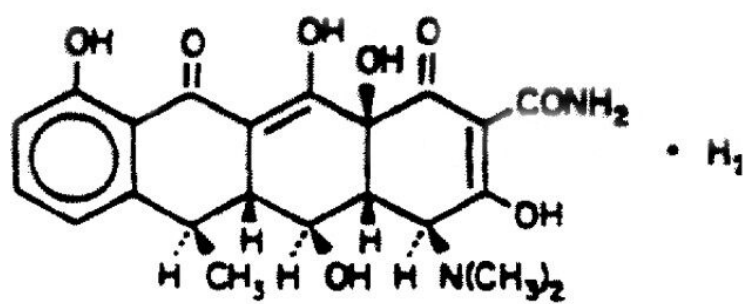
Abstract

This application brief highlights the analysis of tetracyclines using Symmetry C₈ Columns.

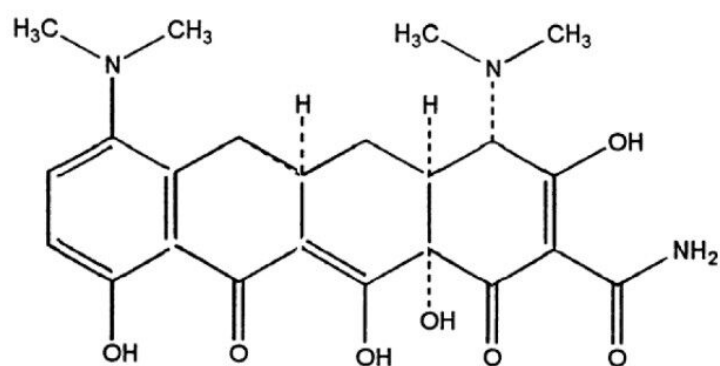
Introduction

The compounds analyzed in this study are:

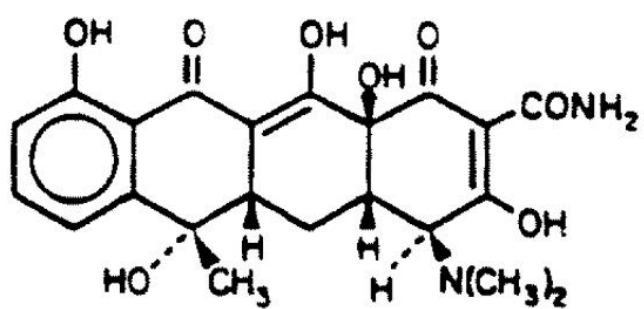
1. Doxycycline
2. Minocycline
3. Tetracycline



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

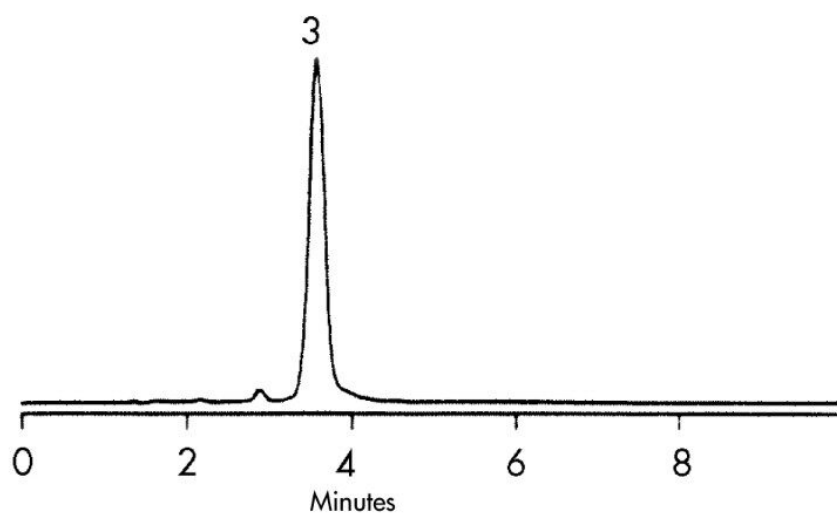
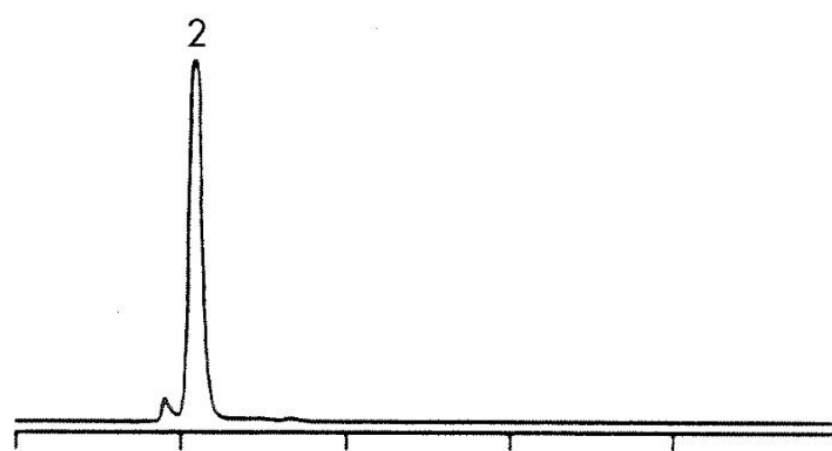
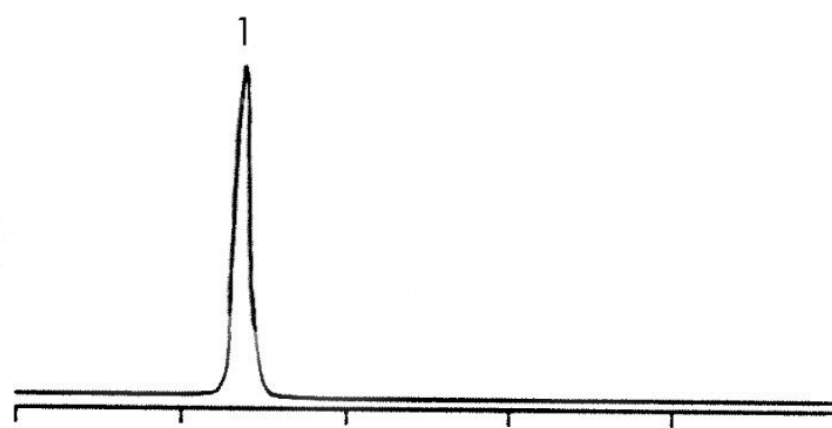
USP Tailing Factors

1. 1.05

2. 1.29

3. 1.14

Results and Discussion



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