

Tricyclic Antidepressants and Metabolites

Waters Corporation



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

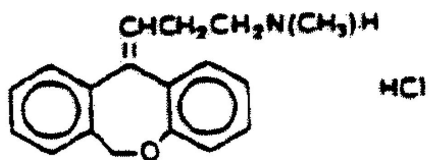
Abstract

This application brief demonstrates analysis of tricyclic antidepressants and metabolites.

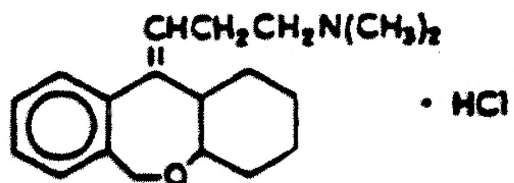
Introduction

The compounds used in this study are –

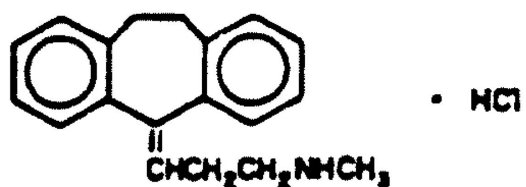
| Compounds | USP Tailing Factors |
|-------------------|---------------------|
| Nordoxepin HCL | 1.5 |
| Doxepin HCL | 1.5 |
| Nortriptyline HCL | 1.3 |
| Amtriptyline HCL | 1.2 |



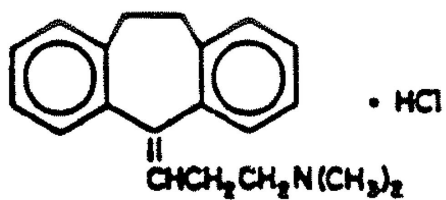
1. Nordoxepin HCL



2. Doxepin HCL



3. Nortriptyline HCL



4. Amtriptyline HCL

Experimental

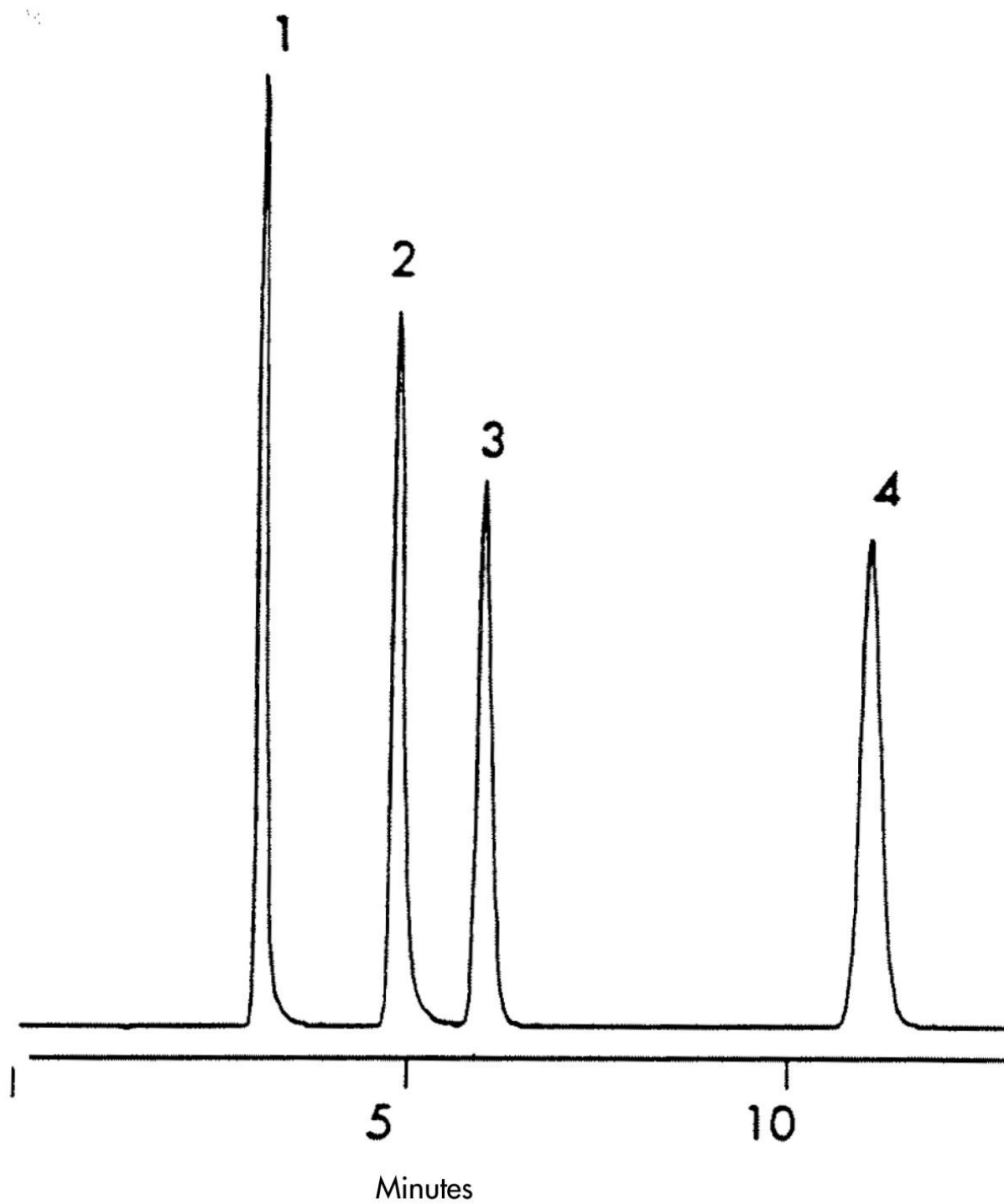
HPLC Method

Column:

Symmetry C₁₈, 3.9 x 150 mm, 5 μm

| | |
|-------------------|---|
| Part numbers: | WAT046980 |
| Mobile phase: | 20 mM potassium phosphate, pH 7.0/methanol 29:71 |
| Flow rate: | 1.0 mL/min |
| Injection volume: | 5 µL of 1 to 1.16 mg/mL |
| Temperature: | 35 °C |
| Detection: | UV @ 254 nm |

Results and Discussion



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WA31763.174, June 2003



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