



## Metoprolol - LC/UV

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Waters Corporation



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

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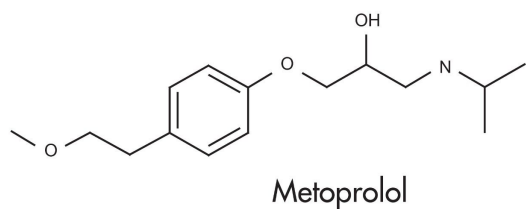
### Abstract

This application brief highlights the analysis of metoprolol using XTerra RP<sub>18</sub> columns.

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## Introduction

Metoprolol has been analyzed in this study.



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## Experimental

### HPLC Conditions

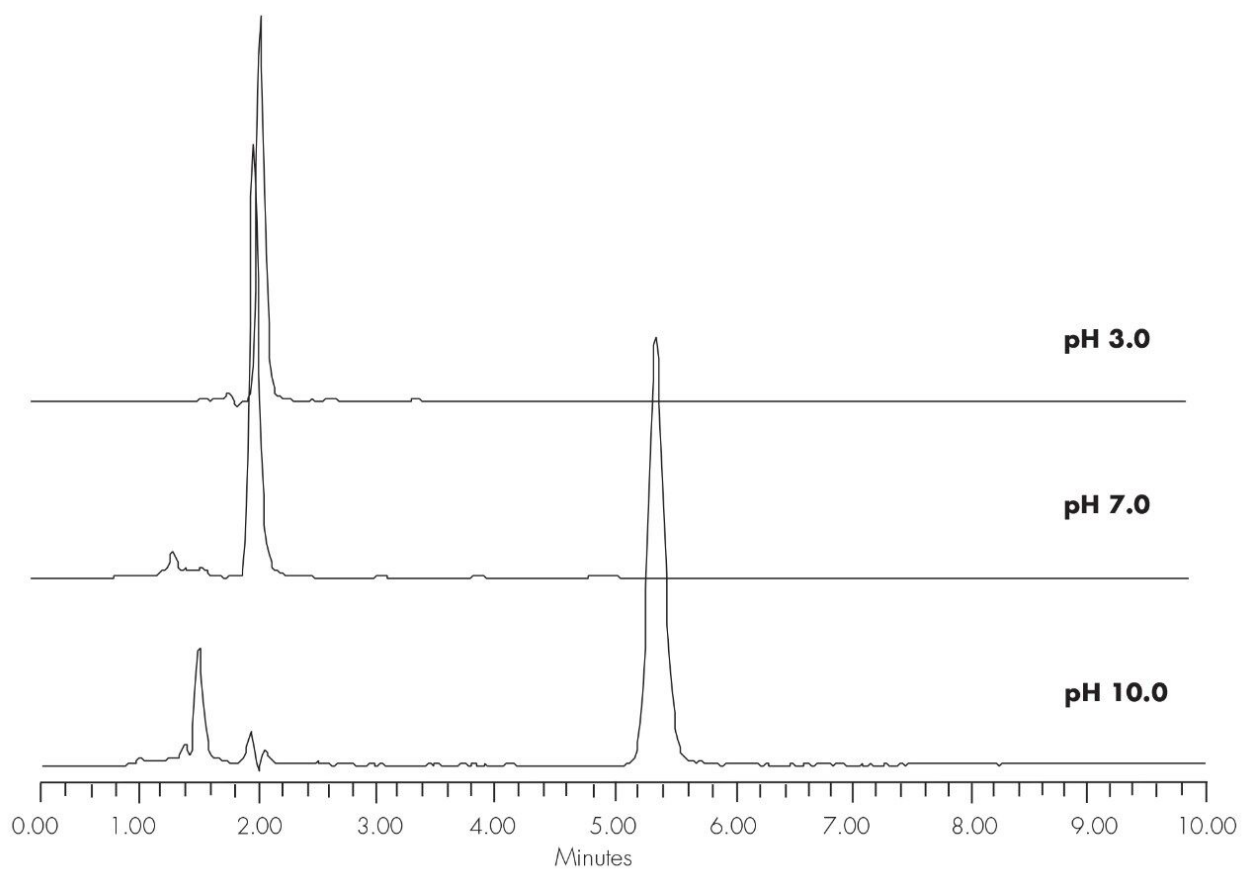
|                   |                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Column:           | XTerra RP <sub>18</sub> 4.6 x 150 mm, 5 µm (p/n: 186000492)                                                                                                                                                                                                                   |
| Mobile phase:     | At pH 3.0: H <sub>2</sub> O/ACN/100 mM, NH <sub>4</sub> COOH, pH 3.0, 55:35:10<br>At pH 7.0: H <sub>2</sub> O/ACN/100 mM, NH <sub>4</sub> HCO <sub>3</sub> , pH 7.0, 35:55:10<br>At pH 10.0 H <sub>2</sub> O/ACN/100 mM, NH <sub>4</sub> HCO <sub>3</sub> , pH 10.0, 60:30:10 |
| Flow rate:        | 1.0 mL/min                                                                                                                                                                                                                                                                    |
| Injection volume: | 5 µL of 250 µg/mL                                                                                                                                                                                                                                                             |
| Temperature:      | 30 °C                                                                                                                                                                                                                                                                         |
| Detection:        | UV @ 270 nm                                                                                                                                                                                                                                                                   |

Instrument:

Alliance 2695, 2996 PDA

| Mobile Phase pH | USP Tailing |
|-----------------|-------------|
| 3.0             | 1.17        |
| 7.0             | 1.33        |
| 10.0            | 1.14        |

## Results and Discussion



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Alliance HPLC <<https://www.waters.com/514248>>

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