

Nota applicativa

## Fungicides in Orange Juice

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Waters Corporation



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

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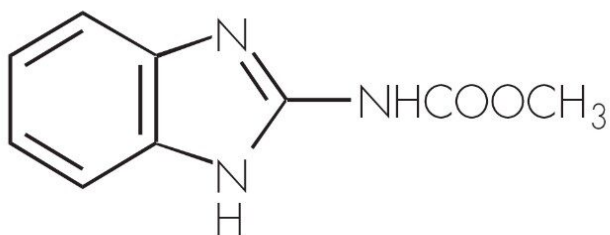
### Abstract

This application brief demonstrates analysis of fungicides in orange juice.

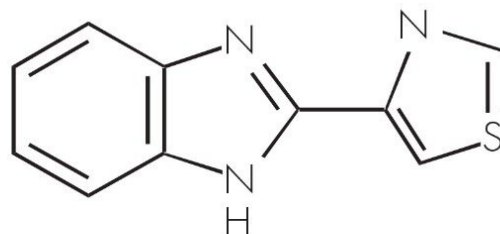
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## Introduction

The compounds analyzed in this study are - Carbendazim and Thiabendazole.



**CARBENDAZIM**



**THIABENDAZOLE**

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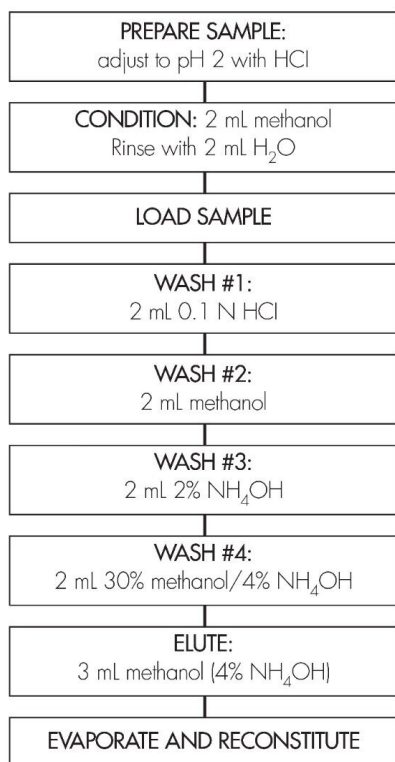
## Experimental

### LC Conditions

|                   |                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------|
| Column:           | Xterra RP <sub>18</sub> , 4.6 x 100 mm, 3.5 $\mu\text{m}$                                         |
| Part number:      | 186000438                                                                                         |
| Mobile phase:     | 72.5% $\text{KH}_2\text{PO}_4/\text{K}_2\text{HPO}_4$ (20 mM pH 6.8) 27.5% $\text{CH}_3\text{CN}$ |
| Flow rate:        | 1 mL/min                                                                                          |
| Injection volume: | 20 $\mu\text{L}$                                                                                  |
| Detection:        | PDA (288 nm)                                                                                      |

### OASIS® MCX SPE METHOD

Conditions for Oasis® MCX Cartridge, 6 cc/150 mg  
Part Number 186000256

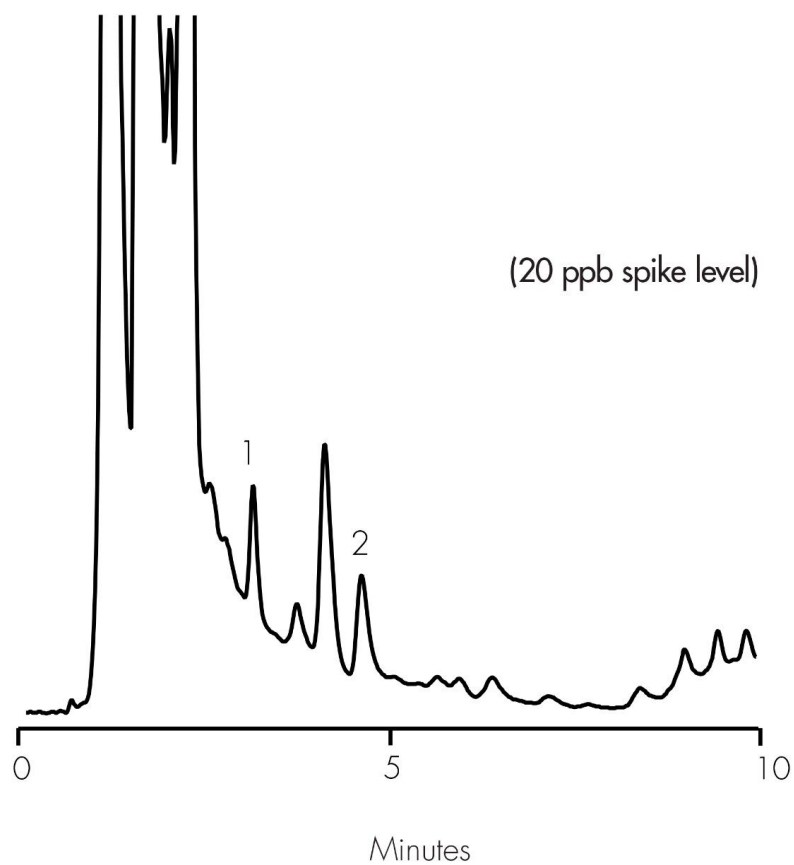


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## Results and Discussion

| Compounds        | %Recovery (n=4) |
|------------------|-----------------|
| 1. Carbendazim   | 91% (2% RSD)    |
| 2. Thiabendazole | 94% (3% RSD)    |

## LC/PDA Chromatogram of Fungicides in Orange Juice



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## Featured Products

WA31764.92, June 2003

