

Fungicides in Orange Juice

Waters Corporation



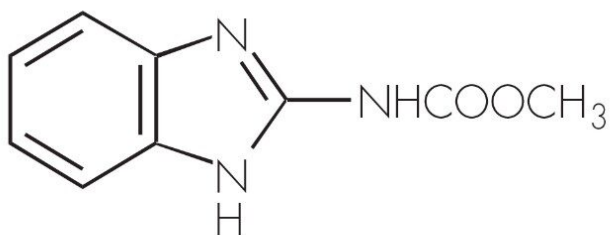
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

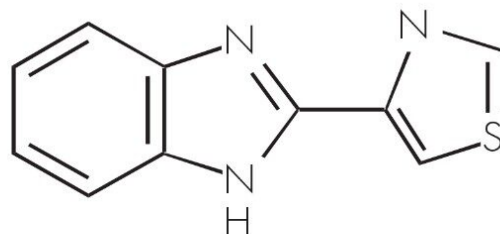
This application brief demonstrates analysis of fungicides in orange juice.

Introduction

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



CARBENDAZIM



THIABENDAZOLE

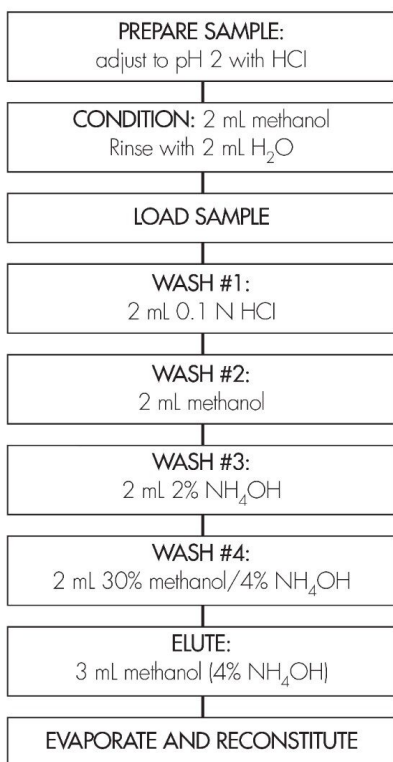
Experimental

LC Conditions

Column:	Xterra RP ₁₈ , 4.6 x 100 mm, 3.5 μm
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% CH_3CN
Flow rate:	1 mL/min
Injection volume:	20 μL
Detection:	PDA (288 nm)

OASIS® MCX SPE METHOD

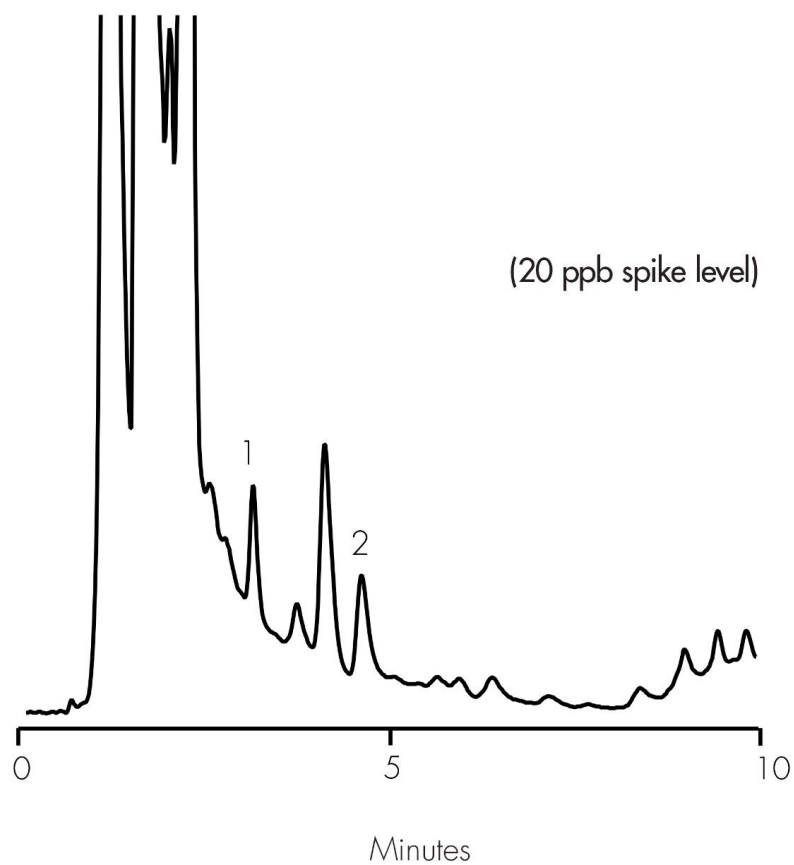
Conditions for Oasis® MCX Cartridge, 6 cc/150 mg
Part Number 186000256



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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