Waters™

Application Note

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 RP₁₈, 4.6 x 100 mm, 3.5 μ m

Part number: 186000438

Mobile phase: 72.5% KH₂PO₄/K₂HPO₄ (20 mM pH 6.8) 27.5%

CH₃CN

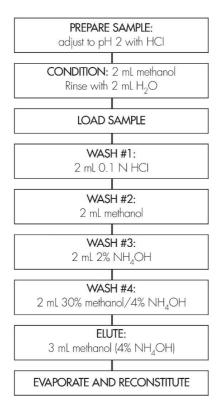
Flow rate: 1 mL/min

Injection volume: 20 µL

Detection: PDA (288 nm)

OASIS® MCX SPE METHOD

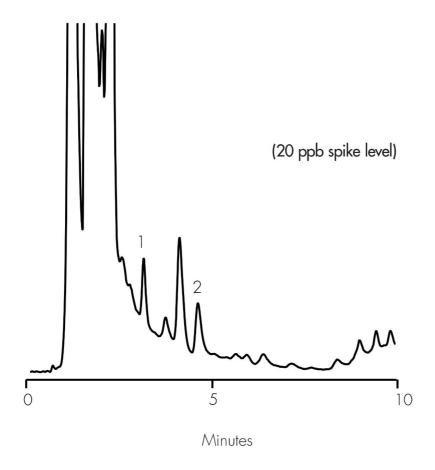
Conditions for Oasis® MCX Cartridge, 6 cc/150 mg Part Number 186000256



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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