Waters™

アプリケーションノート

Fungicides in Commercial Apple Cider

Waters Corporation



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

Abstract

This application brief demonstrates analysis of fungicides in commercial apple cider.

Introduction

The compounds analyzed in this study are - Carbendazim(70 µg/L) and Thiabendazole(170 µg/L).

CARBENDAZIM

THIABENDAZOLE

Experimental

LC Conditions

Column: Xterra MS $C_{18}, 2.1 \times 100 \text{ mm}, 5 \, \mu\text{m}$

Part number: 186000450

Mobile phase: CH₃CN/10 mM NH₄HCO₃, pH 8.3 (20/80)

Flow rate: 200 µL/min, split 1/1 through each detector

Instrument: Waters Alliance Separations Module with 996

PDA

MS Conditions

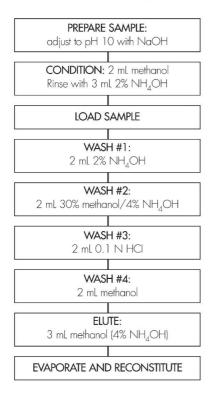
Instrument: Waters ZQ

Source: Positive Electrospray (ESI⁺)

Mode: Multiple Selected-Ion Recording (SIR)

OASIS® MCX SPE METHOD

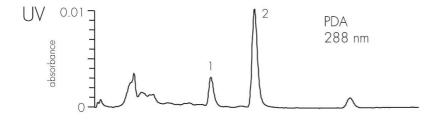
Conditions for Oasis® MCX Cartridges, 6 cc/150 mg Part Number 186000256

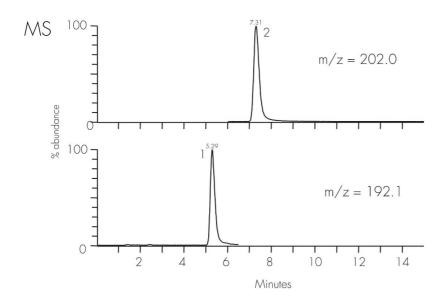


Results and Discussion

SIR group	Time (mins)	Compound	Mass	Cone voltage	Dwell time
1	0-6.5	Carbendazim	192.1	25 V	1.0 secs
2	6-15	Thiabendazole	202.0	35 V	1.0 secs

LC-MS and LC/PDA Chromatograms of Fungicides in Apple Cider





Featured Products

Alliance HPLC System https://www.waters.com/534293

WA31764.90, June 2003

© 2021 Waters Corporation. All Rights Reserved.