

Acidic Herbicides in Red Wine

Waters Corporation



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

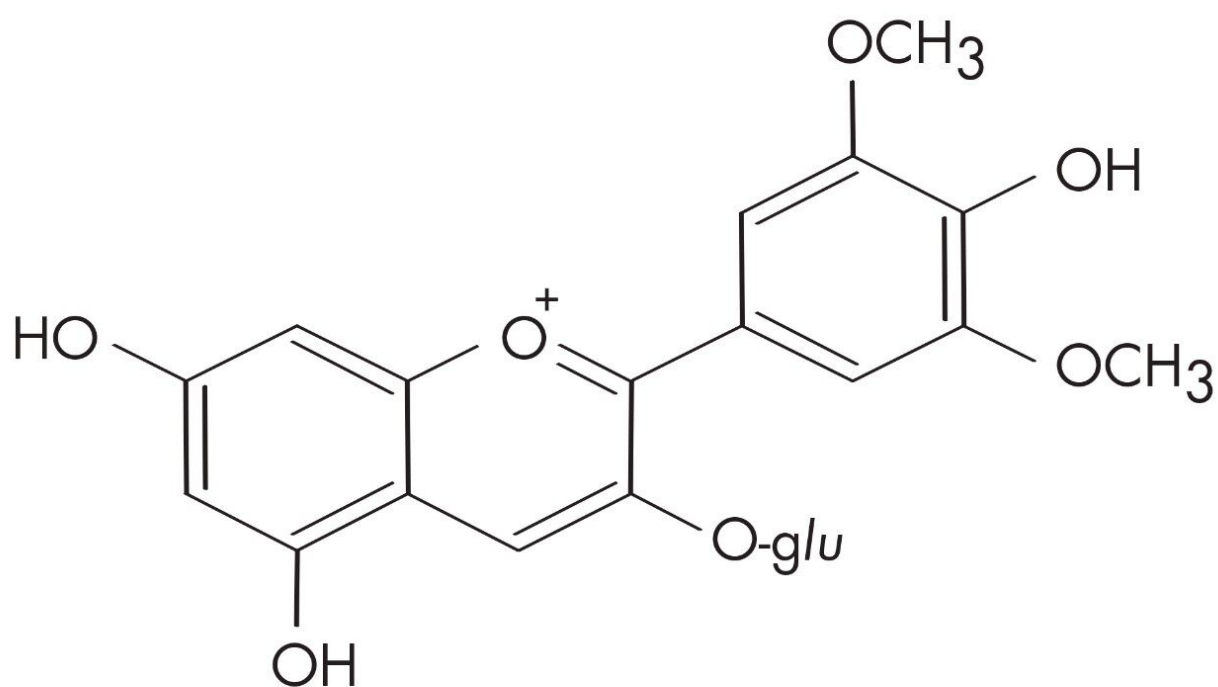
Abstract

This application brief demonstrates analysis of acidic herbicides in red wine.

Introduction

The compounds analyzed in this study are

1. picloram
2. chloramben
3. dicamba
4. bentazon
5. 2,4-D
6. MCPA



TYPICAL GRAPE PIGMENT (MALVIDIN-3-GLUCOSIDE)

Experimental

HPLC Method

Column:

XTerra MS C₁₈, 100 x 2.1 mm, 3.5 μm

Part number:

186000404

Mobile phase A:

20 mM phosphate pH 3

Mobile phase B:

Methanol

Flow rate:

0.2 mL/min

Injection volume:

10 µL

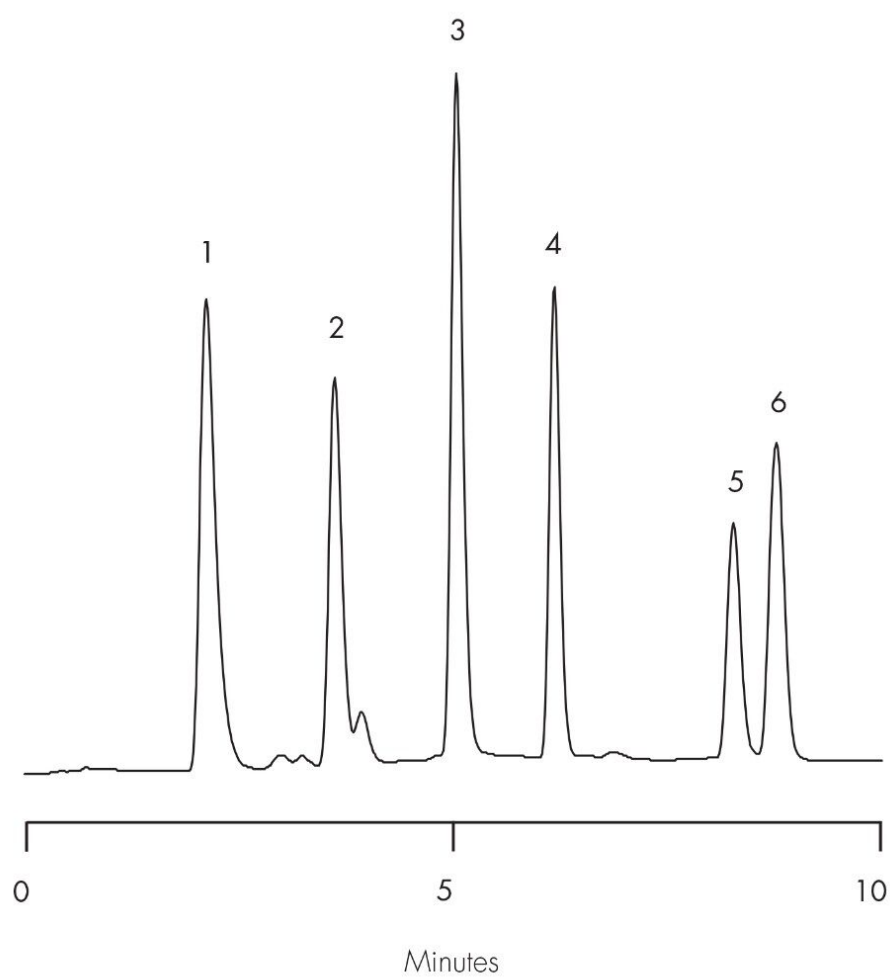
Detection:

UV @ 221 nm

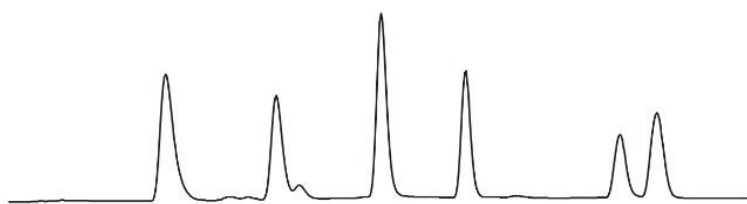
Gradient

Time (min)	Profile	
	%A	%B
0	75	25
6	40	60

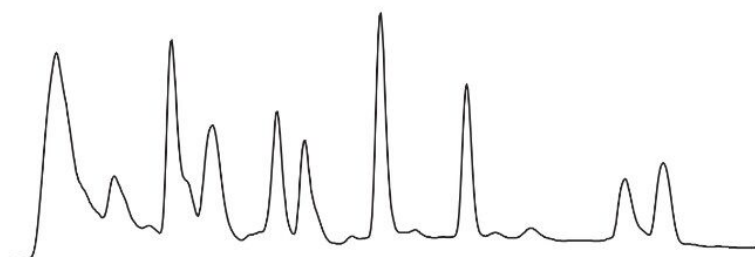
Results and Discussion



- 1. picloram
- 2. chloramben
- 3. dicamba
- 4. bentazon
- 5. 2,4-D
- 6. MCPA



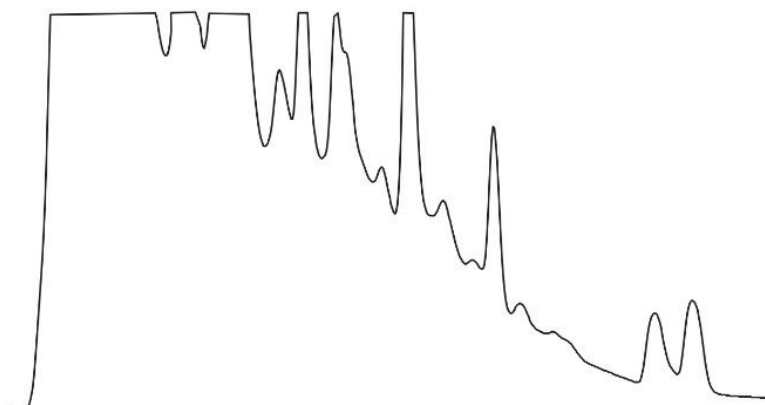
CALIBRATION
STANDARD



OASIS® MAX
GENERIC METHOD



OASIS® HLB
OPTIMIZED METHOD



OASIS® HLB
GENERIC METHOD

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