

Application Note

Amitrole in River Water

Waters Corporation

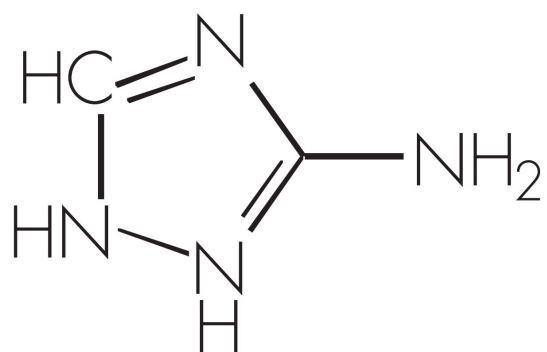
This is an Application Brief and does not contain a detailed Experimental section.

Abstract

This application brief demonstrates analysis of amitrole in river water.

Introduction

The compound analyzed in this study is amitrole.



AMITROLE

Experimental

LC Conditions

Column:	Waters Spherisorb Silica, 2 x 100 mm, 3 µm
Part number:	PSS832022
Mobile phase A:	Acetonitrile
Mobile phase B:	0.05% phosphoric acid
Flow rate:	200 µL/min
Instrument:	Alliance 2695 Separations Module

Gradient

Time (min)	Profile	
	%A	%B
0	100	0
5	0	100

MS Conditions

MS instrument:	Micromass ZQ
Ion source:	ESI+
Mode:	Multiple selected-ion recording
Source temp.:	150 °C
Desolvation temp.:	450 °C
Drying gas:	500 L/hr
Cone:	50 V

OASIS® MCX EXTRACTION METHOD

Oasis® MCX Extraction Cartridge, 6 cc/150 mg (LP)

Part Number: 186000255

PREPARE SAMPLE:

acidify to pH 3

CONDITION:

5 mL methanol/2 mL water

LOAD:

250 mL sample (5 mL/min)

WASH:

1 mL 5% MeOH/water

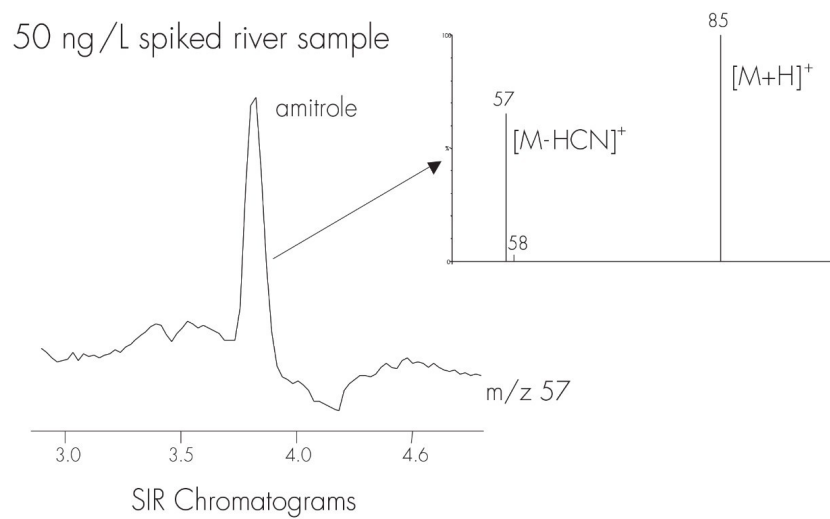
ELUTE:

2.5 mL MeOH/NH₄OH(95:5)

EVAPORATE AND RECONSTITUTE:

250 mL methanol

Results and Discussion



1 Calculated against standard prepared in matrix. Matrix suppression was approximately 10%

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