

Naptalam and Metabolite in Drinking Water by LC-MS

Waters Corporation



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

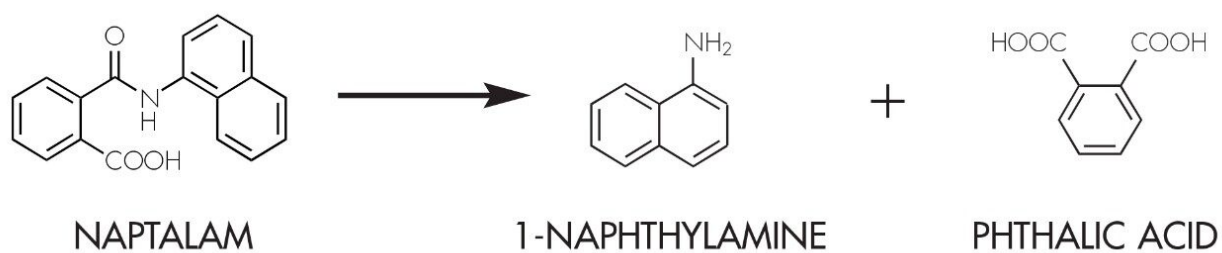
Abstract

This application brief highlights the analysis of naphthalam in drinking water by LC-MS using Oasis SPE products.

Introduction

Compounds studied in this application brief are:

1. Naptalam
2. 1- naphthylamine
3. Phthalic Acid



Experimental

HPLC Method

Colume:	XTerra MS C ₁₈ 2.1 x 100 mm, 3.5 μm (P/N: 186000404)
Mobile phase A:	10 mM CH ₃ COONH ₄ , pH 5.5
Mobile phase B:	ACN

Flow rate: 0.2 mL/min

Injection volume: 20 µL

Detection: MS ESI+, Multiple Selected-Ion Recording (SIR)

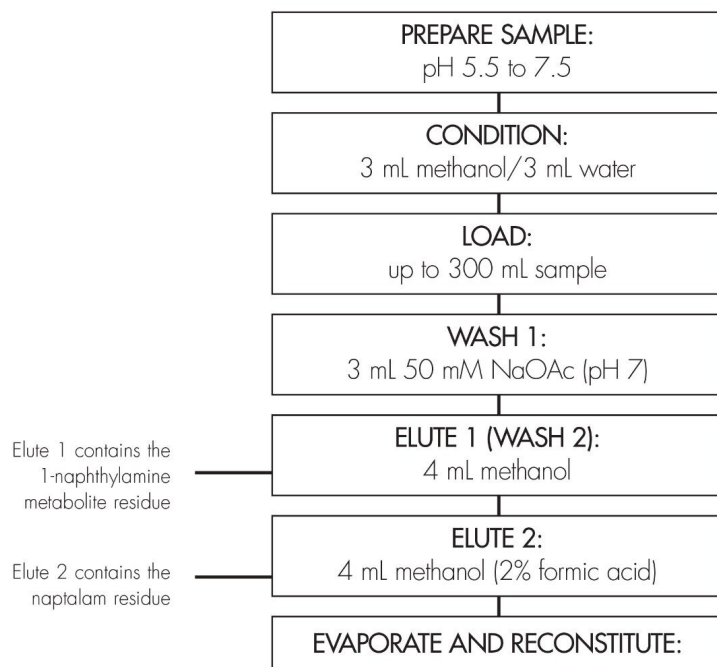
Instrument: Alliance 2695, Micromass ZQ

Gradient

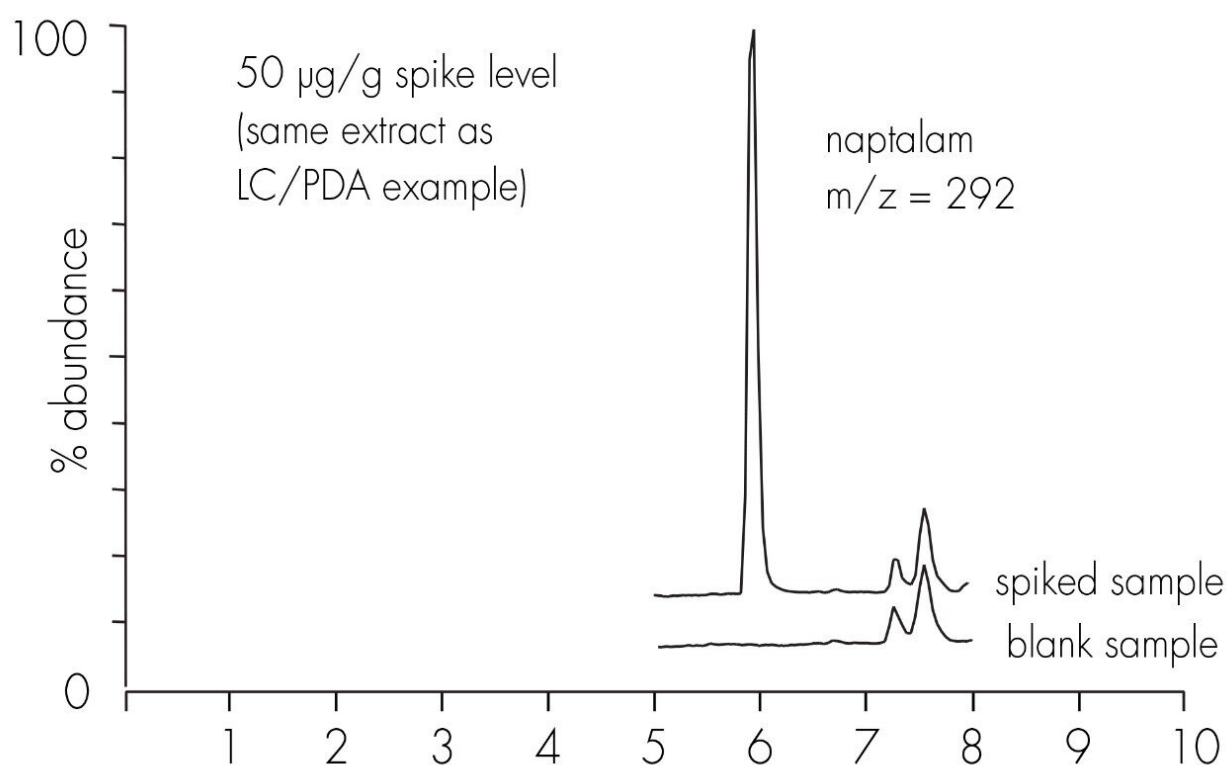
Time (min)	Profile	
	%A	%B
0.0	75	25
6.0	10	90
10.0	10	90

GENERIC OASIS® MAX METHOD

Conditions for Oasis® MAX Cartridge, 6 cc, 500 mg
Part Number 186000865



Results and Discussion



Concentration µg/mL	Compound	% Recovery
0.4 µg/L	naptalam	93% (n=4)
	1-naphthylamine	76% (n=4)

SIR group	Time (mins)	Compound	Mass	Cone voltage	Dwell time
1	5-8	Naptalam	144,292,293	17 V	0.08 secs.

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