# Waters™

Nota de aplicación

# Naptalam in Cucumber Using LC-MS

Waters Corporation



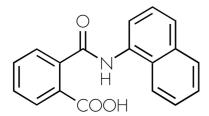
This is an Application Brief and does not contain a detailed Experimental section.

#### Abstract

This application brief highlights the analysis of naptalam in cucumber using Oasis SPE products.

## Introduction

Naptalam has been studied in this application brief.



## NAPTALAM

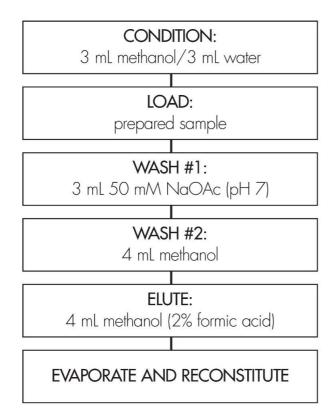
## Experimental

#### LC-MS Conditions

Column:	XTerra MS C <sub>18</sub> , 2.1 x 100 mm	
Mobile phase:	25% acetonitrile/75% 10mM ammonium acetate (pH 5.5) to 90% acetonitrile in 6 minutes.	
Flow rate:	200 μL/min	
Injection volume:	20 μL	
LC system:	Waters Alliance Separations Module	
MS system:	Waters/Micromass ZMD	
Interface:	Positive Electrospray (ESI+)  Multiple Selected Ion Recording (SIR)	

#### OASIS® MAX EXTRACTION METHOD

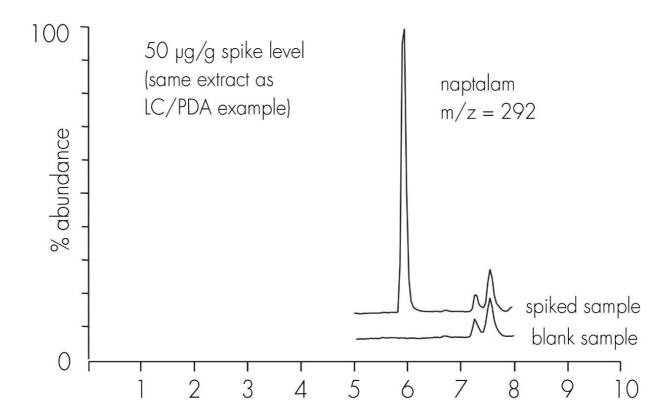
Conditions for Oasis® MAX Cartridge, 6 cc/500 mg Part Number 186000865



#### Sample Preparation

- · Prepare 8 gm sample (homogenize)
- Extract with 30 mL acetonitrile (shake 30 min)
- · Centrifuge (10 min @ 8000 x g)
- · Transfer supernatant to reservoir
- · Wash pellet with 20 mL water
- · Transfer wash to reservoir (combine with supernatant)
- · Perform SPE

### Results and Discussion



Results* (% recovery ± % RSD, n=4)			
10 ppb	50 ppb		
73 (6)	76 (8)		

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

<sup>\*</sup> recovery measured against standards prepared in cucumber matrix

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