

Application Note

Acrylamide in Potato Chips

Waters Corporation



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

Abstract

This application brief demonstrates the analysis of acrylamide in potato chips.

Introduction

The compound analyzed in this study is acrylamide.

Experimental

LC Conditions

Column:	Atlantis dC ₁₈ , 2.1 x 150 mm, 5 µm
Part number:	186001297
Mobile phase :	0.1% Formic Acid in water
Flow rate:	0.2 mL/min
Injection volume:	20 µL
Temperature:	30 °C
Instrument:	Alliance 2695

MS Conditions

MS instrument:	Micromass ZMD
Ion source:	ESI+
Mode:	Multiple selected-ion recording
Source temp.:	150 °C

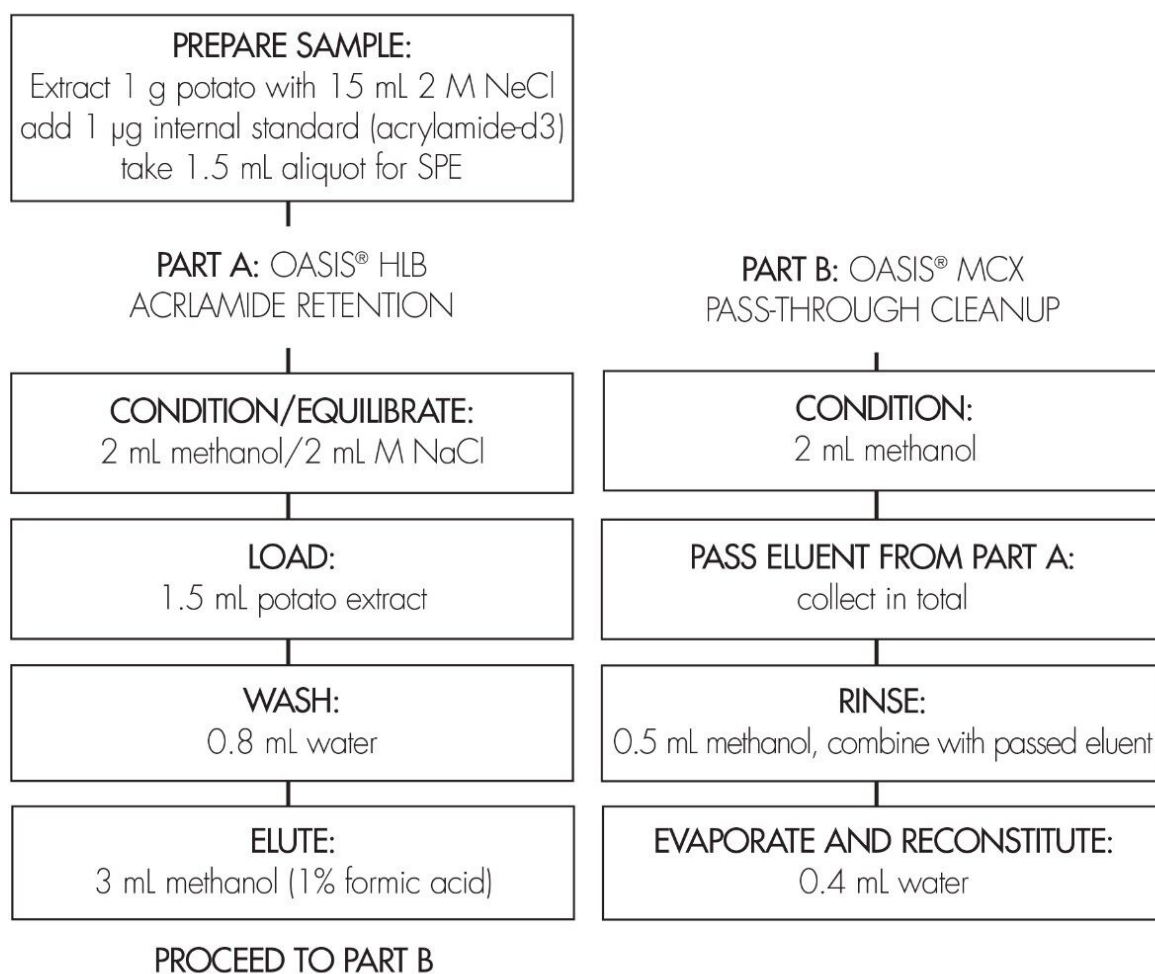
Desolvation temp.: 350 °C

Desolvation gas: 500 L/hr

OASIS® EXTRACTION METHOD

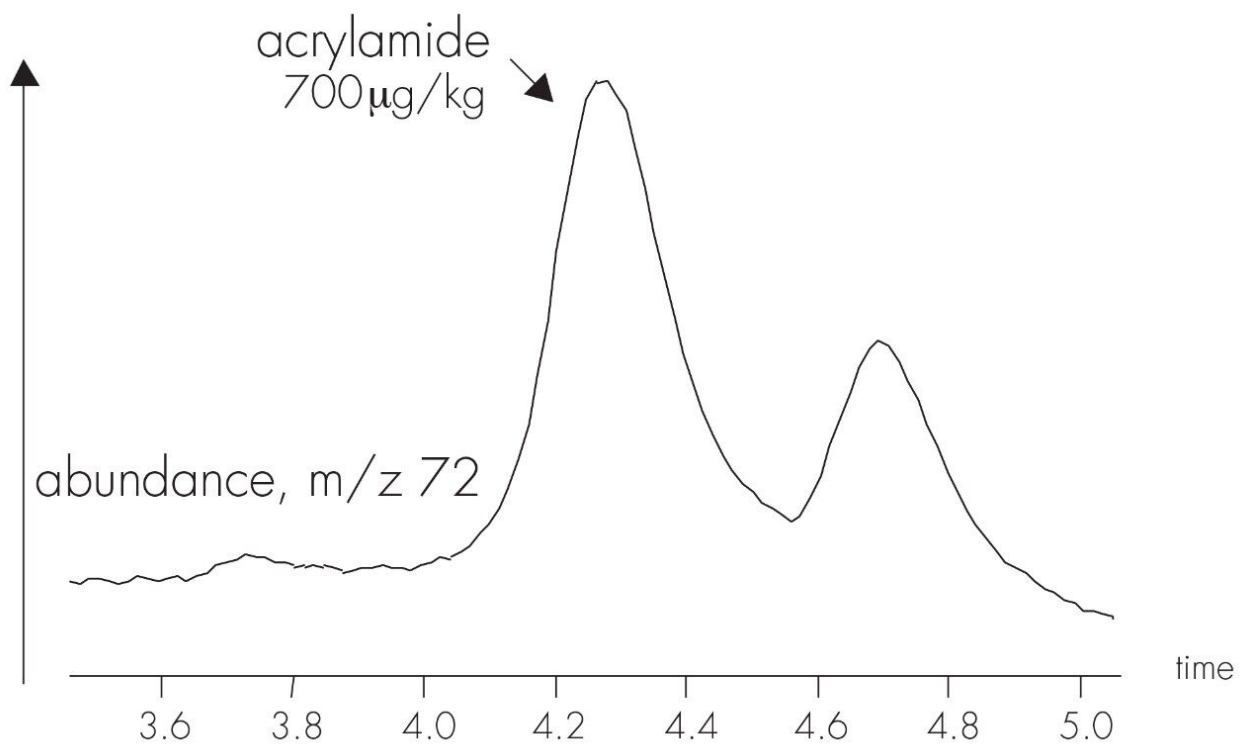
Oasis® HLB Extraction Cartridge, 6 cc/200 mg

Oasis® MCX Extraction Cartridge, 3 cc/60 mg



Results and Discussion

Internal standard calculation (n=5)		
Fortification level ($\mu\text{g}/\text{kg}$)	Amount found ($\mu\text{g}/\text{kg}$)	% RSD
100	96	12
200	211	8.7
500	488	5.8
1000	1010	8.0
2000	2000	6.5



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