

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 dC₁₈, 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

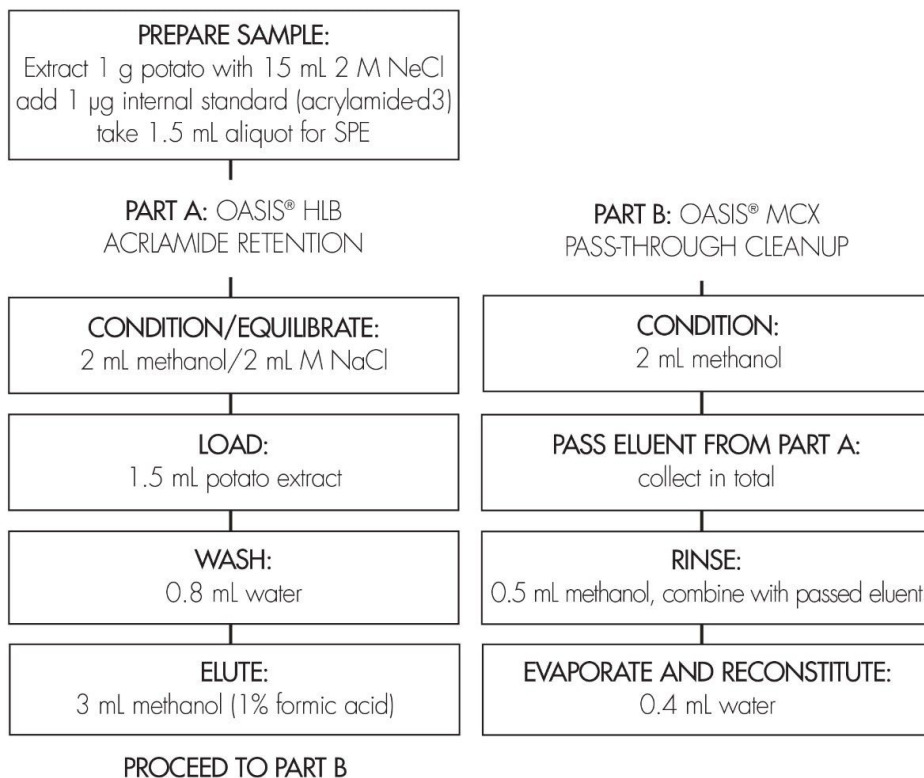
Desolvation temp.: 350 °C

Desolvation gas: 500 L/hr

OASIS® EXTRACTION METHOD

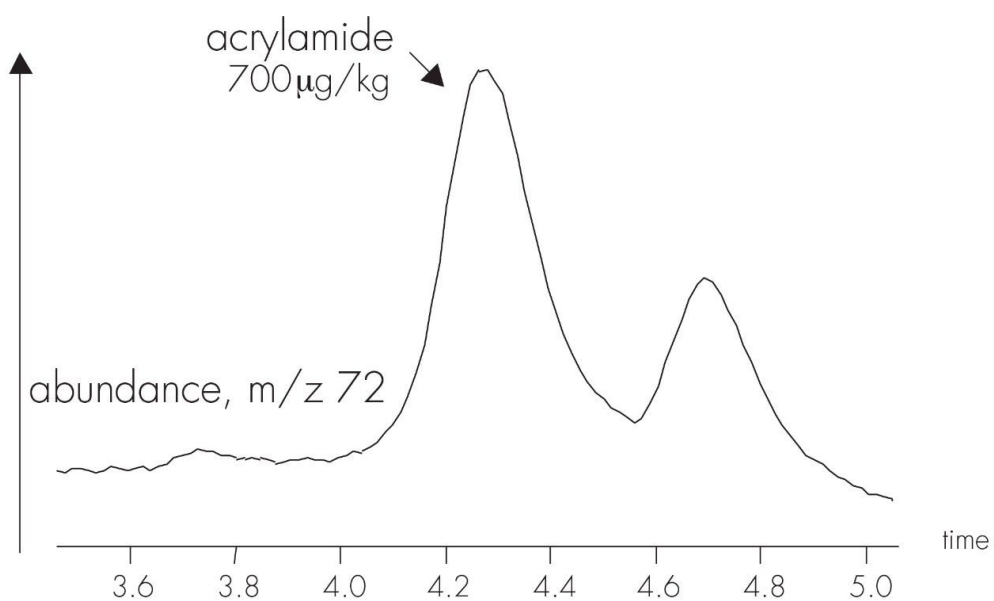
Oasis® HLB Extraction Cartridge, 6 cc/200 mg

Oasis® MCX Extraction Cartridge, 3 cc/60 mg



Results and Discussion

Internal standard calculation (n=5)		
Fortification level (µg/kg)	Amount found (µg/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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