

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 |

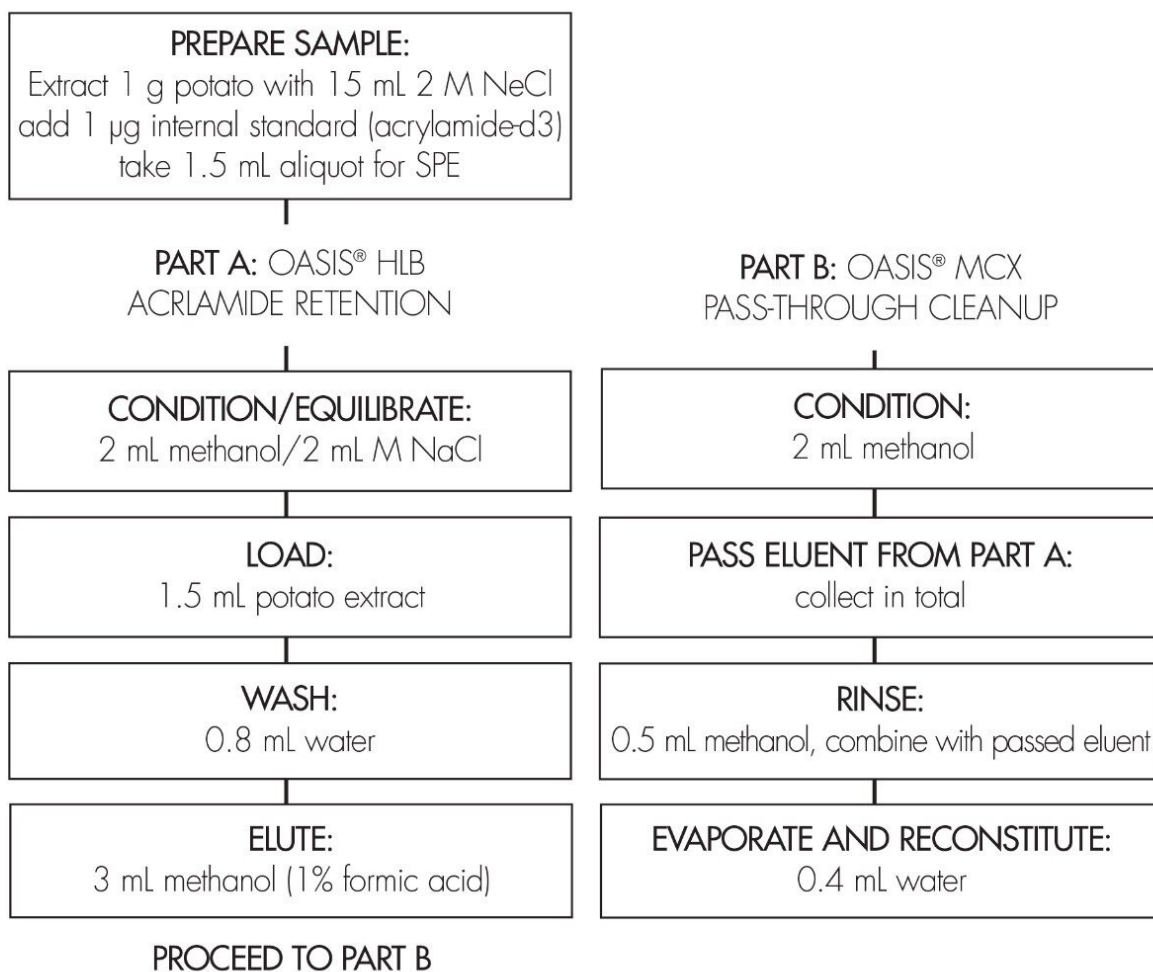
Desolvation gas:

500 L/hr

OASIS® EXTRACTION METHOD

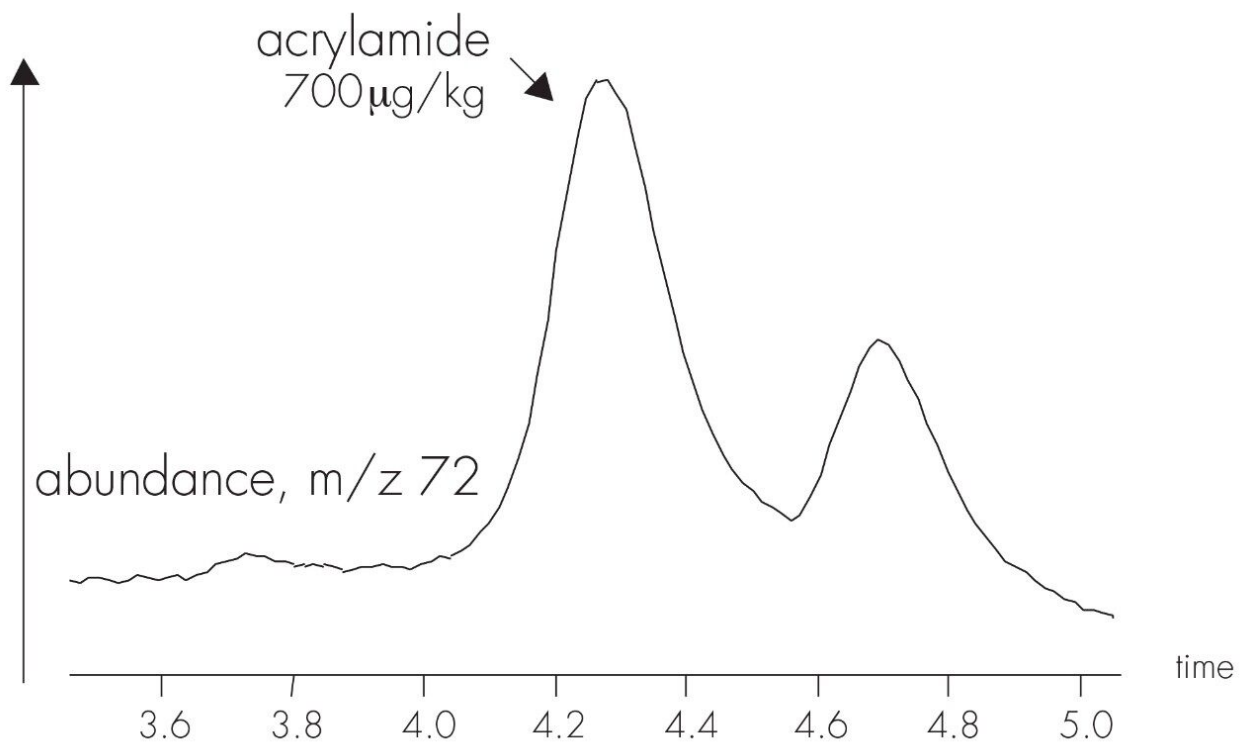
Oasis® HLB Extraction Cartridge, 6 cc/200 mg

Oasis® MCX Extraction Cartridge, 3 cc/60 mg



Results and Discussion

| Internal standard calculation (n=5) | | |
|-------------------------------------|----------------------|-------|
| Fortification level (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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