

# PE Plastic

## DIGESTION OF PE PLASTIC CRM JSM P703-1 USING COLDBLOCK™ DIGESTION TECHNOLOGY

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### Introduction

This application note will focus on the digestion of JSM P703-1 polyethylene plastic using ColdBlock™ Digestion CB12L Technology.

### Method

Triplicate samples of JSM P703-1 were digested using the following method:

- 0.5g sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 15mL H<sub>2</sub>SO<sub>4</sub> was added (3:1 HNO<sub>3</sub>:HCl)
- Sample was digested at 100% power for 10 minutes.
- ~5mL H<sub>2</sub>O<sub>2</sub> was added until clear + 5mL HNO<sub>3</sub>
- Samples was digested again 100% power for 5 minutes
- Chiller temperature was set to -5°C.
- Sample was allowed to cool then was normalized to 50mL using 2% HNO<sub>3</sub>.

### Instrument

ColdBlock™ Digestion CB12L Technology.

### General

This procedure is specific for the sample digested and may need modification for different samples to achieve the desired result.