

PE Plastic – JSM P703-1

SUMMARY

Digestion of PE Plastic CRM JSM P703-1 using ColdBlock™ Digestion Technology.

Instrument:	ColdBlock™ Digestion CB12L Technology
Published:	June 2019
Digestion Time:	20 minutes
Acid Used:	Sulfuric Acid, Hydrogen Dioxide, Nitric Acid

METHODOLOGY

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_2SO_4 was added (3:1 HNO_3 : HCl)
- Sample was digested at 100% power for 10 minutes.
- ~5mL H_2O_2 was added until clear + 5mL HNO_3
- 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_3 .

DISCUSSION

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