

Pb-Soil

DIGESTION OF CRM PB3000 LEAD IN SOIL USING COLDBLOCK™ DIGESTION TECHNOLOGY

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Introduction

This application note will focus on the digestion of CRM PB3000 from Sigma-Aldrich using ColdBlock™ Digestion CB12L Technology.

Method

Triplicate samples of CRM PB3000 were digested using the following method:

- 1.0g sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 15mL Aqua Regia was added (3:1 HCl:HNO₃)
- Sample was digested at 100% power for 10 minutes.
- After digestion ~1mL 30% H₂O₂ was added
- Once effervescence stopped, sample was allowed to cool, then was normalized to 50mL using 2% HNO₃
- Chiller temperature was set to -5°C.

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.