

MANGANESE ORE

DIGESTION OF CRM OREAS 171, A MANGANESE ORE USING COLDBLOCK™ DIGESTION TECHNOLOGY

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Introduction

This application note will focus on the digestion of CRM OREAS 171 using ColdBlock™ Digestion Technology.

Method

Six samples of OREAS-171 were digested using the following method:

- Chiller temperature was set to -5°C.
- 0.25g sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 6 mL Aqua Regia was added (3:1 HCl:HNO₃)
- Samples were digested at 100% power for 10 minutes.
- Samples were cooled and diluted to 50 mL using 1% HNO₃.

Instrument

ColdBlock™ Digestion CB6L Technology.

General

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