

Aluminum Alloy

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DIGESTION OF ALUMINUM ALLOY CRM IARM 104A USING COLDBLOCK™ DIGESTION TECHNOLOGY

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Introduction

This application note will focus on the digestion of IARM 104A aluminum alloy CRM using ColdBlock™ Digestion CB12L Technology.

Method

Triplicate samples of IARM 104A were digested using the following method:

- 0.25g sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 20mL Aqua Regia was added carefully (3:1 HCl:HNO₃)
- Sample was digested at 100% power for 20 minutes.
- Chiller temperature was set to -5°C.
- Sample was allowed to cool then was normalized to 50mL using 2% HNO₃.

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.