

# Low Alloy Steel

## DIGESTION OF NIST SRM 2161 – LOW ALLOY STEEL USING COLDBLOCK™ DIGESTION TECHNOLOGY

*Author: Lorie-Anne Doig*

### Introduction

This application note will focus on the digestion of NIST SRM 2161 – low alloy steel using ColdBlock™ Digestion CB12L Technology.

### Method

Triplicate samples of NIST SRM 2161 were digested using the following method:

- 0.25g sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 16mL reverse Aqua Regia was added (3:1 HNO<sub>3</sub>:HCl)
- Sample was digested at 80% power for 10 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.