

Skim Milk Powder 2

DIGESTION OF SKIM MILK POWDER USING COLDBLOCK™ DIGESTION TECHNOLOGY

Author: Lorie-Anne Doig

Introduction

This application note will focus on the digestion of skimmed milk powder CRM ERM-BD150 using ColdBlock™ Digestion CB12L Technology.

Method

A sample of CRM (Certified Reference Material) ERM-BD150 was digested using the following method:

- 0.5g of sample was weighed and placed into a ColdBlock™ Digestion vessel.
- 10mL HNO₃ and 2ml H₂O₂ (30%) was added.
- Sample was digested at 100% power for 10 minutes.
- Chiller temperature was set to -5°C.
- After 10 minutes of digestion, 2mL of H₂O₂ (30%) was added
- Sample was allowed to cool.
- Sample was normalized to 25mL 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.

This procedure is specific for skim milk powder. Results will vary with whole milk powder.