#### **Introduction:**

This study evaluated the effectiveness of the *MiniWAVE* microwave digestion system to digest protein powder.

### **Supplies and Reagents:**

- 1) MiniWAVE Model\*
- 2) Quartz Vessels, 75 ml\*
- 3) Teflon® Caps and Safety Pressure Release Caps (calibrated at 435psi)\*
- 4) PlasmaPURE HNO3 (70%)\*

## **Sample Preparation Procedure:**

The samples were weighed on a 4 place analytical balance directly in the vessels. After adding 10 ml of HNO3, the samples were allowed to sit at room temperature for 5-10 minutes. The vessels were placed in the rack, capped and digested following the heating profile below. After cooling to room temperature, the rack was vented carefully in a fumehood. At the end of the digestion, the solutions were a clear-green solution, no target values we provided for analysis.

# **Heating Program:**

	RAMP TIME	TEMPERATURE	HOLD TIME
STAGE	(MINUTES)	(°C)	(MINUTES)
1	20	200	15

# MiniWAVE Report:

**User:** Root, **User Level:** Services, **Date:** Tue 29 Apr 2014, **Module:** 1,

Methode: Xymogen (Methode Time=00:35:00 (2100s).),

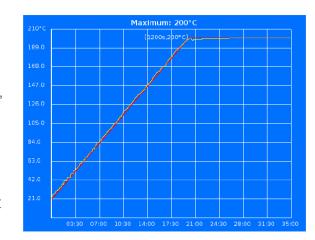
Vessel Type: Quartz, Rack Name: MiniRack,

Status: Successfully Digested.



The *Mini***WAVE** is an effective system to digest these types of sample for metal analysis.





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<sup>\*</sup> Manufactured by SCP SCIENCE