

## Straw

Sample Category: Food / Plant / Animal Tissue

### Sample Requirements

Sample Weight: 0.3g  
 Reagents: 9mL Conc. HNO<sub>3</sub>, 1mL Conc. HF  
 Vessels: 35mL glass, quartz, and Teflon™ lined

### Microwave Heating Program

Control Style: Ramp To Temperature  
 Pressure Mode: Organic

### Recommended Equipment



Discover SP-D

Stage	Temp (°C)	Ramp Time	Hold Time	Pressure (psi)	Power (W)	Stirring
1	200	4:00	2:00	400	300	Med

#### Notes:

1. If using a vial other than the recommended choice, adjust sample size and pressure limit to values appropriate for the vessel chosen.

#### Safety Precautions for Working with Samples Requiring HF

1. The instrument must be placed in a hood and the SP-D HF Scrubber must be installed.
2. Sample mass must be ≤ 0.3 grams for organic samples and ≤ 0.5 grams for inorganic samples.
3. The volume of HF required for total digestion may vary depending upon the sample matrix. Do not exceed 3 mL of total HF volume in the 35 mL Teflon lined vials.
4. It is recommended that Personal Protective Equipment (PPE) for handling HF include chemical splash goggles with a safety shield, lab coat with chemical splash apron, and heavy weight nitrile or rubber gloves.

#### General Precautions:

This procedure is a reference for sample digestion using a CEM System and may need to be modified or changed to obtain the required results on your sample