



### Systems

Phoenix BLACK

### Equipment

20 mL Quartz Fiber Crucibles  
Analytical Balance  
Gloves  
Tongs

### Sample Preparation

Blend sample using an industrial or consumer grade food processor until homogeneous.

### Procedure

1. Program a "Standard" method with calculation mode "Ash" in the Phoenix BLACK using parameters located in "Stages" section and allow furnace to reach set temperature.
2. Weigh a crucible that has been preashed for at least 10 minutes at the set temperature and record weight.
3. Weigh ~2 grams of sample and record weight.
4. Place crucible in furnace and ash for designated dwell time.
5. Reweigh crucible containing ash and record weight.
6. Calculate percent ash:

$(\text{Weight of Ashed Sample With Crucible} - \text{Weight of Crucible}) / \text{Weight of Sample} \times 100$

### Parameters

Stage	Dwell Time (minutes)	Temperature (°C)	Sample Size (g)
1	30	550	2

### Notes

1. Always ash samples to a constant weight (this can be verified by inserting samples back into furnace for additional 15+ minutes).

\*The above parameters are suggested starting points and may need to be modified to meet certain product specifications.