



Systems

Phoenix BLACK

Equipment

20 mL Quartz Fiber Crucibles
Analytical Balance
Desiccator
Disposable Pipette
Gloves
H₂SO₄
Tongs

Sample Preparation

None.

Procedure

1. Program a "Ramping" Sulfated Ash method with calculation mode "Ash" in the Phoenix BLACK using parameters located in "Stages" section.
2. Weigh a crucible that has been preashed for a least 10 minutes at set temperature and record weight.
3. Weigh ~2 grams of sample and record weight.
4. Wet sample with a small amount of H₂SO₄.
5. With the furnace temperature at 100°C or less, place crucible in furnace and ash for designated dwell time.
6. Remove sample from furnace and allow to cool in desiccator.
7. Once cool, reweigh crucible containing ash and record weight.
8. 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	10	800	2

Notes

1. Never place samples into the furnace above 100°C.
2. If the results are lower than certified values, a ramping procedure should be employed.
3. Set ashing temperature may vary depending on specific pharmaceutical product.

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