

32.1.05**AOAC Official Method 923.03****Ash of Flour****Direct Method****First Action 1923****Final Action**

Weigh 3–5 g well-mixed test portion into shallow, relatively broad ashing dish that has been ignited, cooled in desiccator, and weighed soon after reaching room temperature. Ignite in furnace at ca 550°C (dull red) until light gray ash results, or to constant weight. Cool in desiccator and weigh soon after reaching room temperature. Reignited CaO is satisfactory drying agent for desiccator.

Reference: *JAOC* 7, 132(1923).

4.1.10**AOAC Official Method 942.05****Ash of Animal Feed****First Action 1942****Final Action 1943**

Weigh 2 g test portion into porcelain crucible and place in temperature controlled furnace preheated to 600°C. Hold at this temperature 2 h. Transfer crucible directly to desiccator, cool, and weigh immediately, reporting percent ash to first decimal place.

$$\text{Ash, \% (w/w)} = \frac{\text{weight of test portion, g} - \text{weight loss on ashing, g}}{\text{weight of test portion, g}} \times 100$$

References: *JAOAC* **25**, 857(1942); **26**, 220(1943).