



# PHARMA DEVILS

## QUALITY CONTROL DEPARTMENT

### GENERAL TESTING PROCEDURE

**Title:** Determination of Sulfated Ash

<b>SOP No.:</b>		<b>Department:</b>	QC
<b>Effective Date:</b>		<b>Review Date:</b>	
<b>Revision No.:</b>	00	<b>Page No.:</b>	1 of 2
<b>Supersede SOP No.:</b>	Nil		

#### 1.0 OBJECTIVE:

1.1 To lay down a procedure for Sulphated Ash.

#### 2.0 SCOPE:

2.1 It is applicable for the estimation of Raw material.

#### 3.0 RESPONSIBILITY:

3.1 Analyst / Officer / Executive follow the procedure.

3.2 Head-QC are responsible for effective implementation of this SOP.

#### 4.0 REFERENCE:

4.1 BP (Ph. Eur. Method)

#### 5.0 DEFINITION:NA

#### 6.0 PROCEDURE:

6.1 Use Method I unless otherwise directed.

**Method I:** Heat a platinum dish to redness for 10 minutes, allow to cool in a desiccator and weigh. Unless otherwise specified in the monograph, place 1 g of the substance being examined in the dish, moisten with sulfuric acid, ignite gently, again moisten with sulfuric acid and ignite at about 800°. Cool, weigh again, ignite for 15 minutes and repeat this procedure until two successive weighings do not differ by more than 0.5 mg.

**Method II:** Ignite a suitable crucible (for example, silica, platinum, porcelain or quartz) at  $600 \pm 50^\circ\text{C}$  for 30 min, allow to cool in a desiccator over silica gel or other suitable desiccant and weigh. Place the prescribed amount of the substance to be examined in the crucible and weigh. Moisten the substance to be examined with a small amount of sulfuric acid (usually 1 mL) and heat gently at as low a temperature as practicable until the sample is thoroughly charred. After cooling, moisten the residue with a small amount of sulfuric acid (usually 1 mL), heat gently until white



# PHARMA DEVILS

## QUALITY CONTROL DEPARTMENT

### GENERAL TESTING PROCEDURE

**Title:** Determination of Sulfated Ash

<b>SOP No.:</b>		<b>Department:</b>	QC
<b>Effective Date:</b>		<b>Review Date:</b>	
<b>Revision No.:</b>	00	<b>Page No.:</b>	2 of 2
<b>Supersede SOP No.:</b>	Nil		

fumes are no longer evolved and ignite at  $600 \pm 50^{\circ}\text{C}$  until the residue is completely incinerated. Ensure that flames are not produced at any time during the procedure. Allow the crucible to cool in a desiccator over silica gel or other suitable desiccant, weigh it again and calculate the percentage of residue.

If the amount of the residue so obtained exceeds the prescribed limit, repeat the moistening with sulfuric acid and ignition, as previously, for 30 min periods until 2 consecutive weighings do not differ by more than 0.5 mg or until the percentage of residue complies with the prescribed limit.

The amount of substance used for the test (usually 1-2 g) is chosen so that at the prescribed limit the mass of the residue (usually about 1 mg) can be measured with sufficient accuracy.

**7.0 Annexures:** NA

**8.0 Distribution:**

**8.1** Display copy 1 : Quality Control Lab

**9.0 Abbreviation:**

GTP : General Test Procedure

QC : Quality Control laboratories

**10.0 Revision History:**

**10.1** Revision history table:

Document Number	CC Number/Date	Brief Description of Change