

# PHARMA DEVILS

# **QUALITY CONTROL DEPARTMENT**

# GENERAL TESTING PROCEDURE

**Title:** Sodium Hydroxide 1.0 M

SOP No.:		<b>Department:</b>	QC
<b>Effective Date:</b>		<b>Review Date:</b>	
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Supersede SOP No.:	Nil		

#### 1.0 **OBJECTIVE**:

1.1 To lay down a procedure for the preparation and standardisation of 1.0 M Sodium Hydroxide.

#### 2.0 SCOPE:

2.1 It is applicable for the estimation of Raw material, bulk product, intermediate product and finish products.

#### 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

#### **5.0 DEFINITION:**

**5.1** Molarity is the number of mole of substance that are present in the given Volume of the Solution.

#### **6.0 PROCEDURE:**

# **6.1** Material and Equipment:

**6.1.1** Volumetric flask 1000 ml, Sodium hydroxide, Potassium hydrogen phthalate, conical flask, record book etc.

# 6.2 Preparation:

**6.2.1** Dissolve 42.0 g of sodium hydroxide in sufficient carbon dioxide-free water to Produce 1000 ml.

#### **6.3** Standardisation:

**6.3.1** Weigh accurately about 0.150 g of potassium hydrogen phthalate, previously powdered and dried at 110° for 1 hours, and dissolve in 50 ml of carbon dioxide-free



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water. Add 0.1 ml of phenolphthalein solution and titrate with the sodium hydroxide solution until a permanent pink colour is produced.

Each ml of 1.0 M Sodium Hydroxide is equivalent to 0.2042 g of C<sub>8</sub>H<sub>5</sub>KO<sub>4</sub>.

#### 6.4 Calculation:

#### 7.0 Annexures:

**7.1** Annexure-I: Molarity Calculation format of Volumetric Solution 1.0 M sodium Hydroxide.

#### 8.0 Distribution:

**8.1** Display copy 1 : Instrument Lab

# 9.0 Abbreviation:

GTP : General Test Procedure

QC : Quality Control laboratories

# **10.0** Revision History:

# 10.1 Revision history table:

<b>Document Number</b>	CC Number/Date	Brief Description of Change			



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# ANNEXURE-I Molarity Calculation format of Volumetric Solution 1.0 M Sodium Hydroxide

S. No.	Date	Qty. Prep.	Batch no.	Primary Std. ID. No.	Primary Std. Weight	Calculation	RSD NMT 0.2%	Mean Molarity	Date of Standardization
1.									
2.									
3.									

Prepared By (Sign/Date): Checked By (Sign/Date):