

PHARMA DEVILS

QUALITY CONTROL DEPARTMENT

GENERAL TESTING PROCEDURE					
Title: Sodium Hydroxide 0.05 M					
SOP No.:		Department:	QC		
Effective Date:		Review Date:			
Revision No.:	00	Page No.:	1 of 3		
Supersede SOP No.:	Nil				

1.0 **OBJECTIVE**:

1.1 To lay down a procedure for the preparation and standardisation of 0.05 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 2.1 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 0.1 M Sodium Hydroxide is equivalent to 0.02042 g of C₈H₅KO₄.

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6.4	Caicu	lation:

- 7.0 Annexures:
 - **7.1** Annexure-I: Molarity Calculation format of Volumetric Solution 0.05 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:

Document Number	C.C Number/Date	Brief Description of Change		



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ANNEXURE-I Molarity Calculation format of Volumetric Solution 0.05 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):