

PHARMA DEVILS QUALITY CONTROL DEPARTMENT

GENERAL TESTING PROCEDURE

Title: Potassium Hydroxide 0.1 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 0.1 M Potassium Hydroxide.

SCOPE: 2.0

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, Potassium hydroxide, Potassium hydrogen phthalate, Phenolphthalein, conical flask, record book etc.

6.2 **Preparation:**

6.2.1 Dissolve 6 g of potassium hydroxide in carbon dioxide-free water and dilute to 1000.0 mL with the same solvent.

6.3 **Standardisation:**

6.3.1 Dissolve 0.150 g of potassium hydrogen phthalate in 50 mL of water. Titrate with the potassium hydroxide solution, determining the end-point potentiometrically or using 0.1 mL of phenolphthalein solution as indicator.

1 mL of 0.1 M Potassium hydroxide is equivalent to 0.02042 g of C₈H₅KO₄.



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6.4 Calculation:

Weight of primary std in gm X 0.1 M X Potency of Primary std.

Molarity (M) = -----

Consume vol. X 0.02042 gm X 100

7.0 Annexures:

7.1 Annexure-I: Molarity Calculation format of Volumetric Solution 0.1 M Potassium 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 0.1 M Potassium 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):