

FILT # 4 1

# PHARMA DEVILS QUALITY CONTROL DEPARTMENT

### **GENERAL TESTING PROCEDURE**

Title: Sodium Hydroxi	de 0.1 M		
SOP No.:		Department:	QC
Effective Date:		<b>Review Date:</b>	
<b>Revision No.:</b>	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 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 4.2 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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SOP		•		Departm	ent:	QC		
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Revi	sion No	).:	00	Page No.	:	2 of 3		
Supe	ersede S	SOP No.:	Nil					
			water. Add	0.1 ml of phenolphthale	ein solut	ion and titrate	e with the sodi	um hydro
			solution un	til a permanent pink colo	our is pro	duced.		
			Each ml	of 0.1 M Sodium Hydro	oxide is e	equivalent to (	).02042 g of C	8H5KO4.
	6.4	Calcula	tion:					
			Wei	ght of primary std in gm	X 0.1M	X Potency of	f Primary std.	
		Mola						
				Consume vol. X 0.020	42 gm X	100		
70	<b>A</b>							
7.0	Anne	exures:						
7.0	Anne 7.1		e-I: Molarity C	alculation format of Vol	umetric S	Solution 0. <b>1</b> N	A sodium Hyd	roxide.
7.0			e-I: Molarity C	alculation format of Vol	umetric	Solution 0.1 N	A sodium Hyd	roxide.
	7.1	Annexu	e-I: Molarity C	alculation format of Vol	umetric :	Solution 0. <b>1</b> N	⁄I sodium Hyd	roxide.
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	7.1	Annexur	e-I: Molarity C copy 1 : Instrum		umetric :	Solution 0. <b>1</b> N	A sodium Hyd	roxide.
	7.1 Distri	Annexur	·		umetric S	Solution 0. <b>1</b> N	A sodium Hyd	roxide.
	7.1 Distr 8.1	Annexur	·		umetric S	Solution 0. <b>1</b> N	И sodium Hyd	roxide.
8.0	7.1 Distr 8.1	Annexur ibution: Display reviation:	copy 1 : Instrun	nent Lab	umetric :	Solution 0. <b>1</b> N	И sodium Hyd	roxide.
8.0	7.1 Distr 8.1	Annexur ibution: Display reviation: GTP	copy 1 : Instrum : Gen	nent Lab neral Test Procedure		Solution 0. <b>1</b> N	И sodium Hyd	roxide.
8.0	7.1 Distr 8.1	Annexur ibution: Display reviation:	copy 1 : Instrum : Gen	nent Lab		Solution 0. <b>1</b> N	И sodium Hyd	roxide.
8.0	7.1 Distr 8.1	Annexur ibution: Display reviation: GTP	copy 1 : Instrum : Gen	nent Lab neral Test Procedure		Solution 0. <b>1</b> N	И sodium Hyd	roxide.
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8.0 9.0	7.1 Distr 8.1 Abbr	Annexur ibution: Display reviation: GTP QC sion Histor	copy 1 : Instrum : Gen : Qu	nent Lab neral Test Procedure ality Control laboratorie		Solution 0. <b>1</b> N	И sodium Hyd	roxide.
8.0 9.0	7.1 Distr 8.1 Abbr	Annexur ibution: Display reviation: GTP QC sion Histor Revision	copy 1 : Instrum : Gen : Qu	nent Lab neral Test Procedure ality Control laboratorie	s	Solution 0.1 N		roxide.



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#### ANNEXURE-I Molarity Calculation format of Volumetric Solution 0.1 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):