

# PHARMA DEVILS

# **QUALITY CONTROL DEPARTMENT**

GENERAL TESTING PROCEDURE					
<b>Title:</b> Sodium Thiosulphate 0.1 M					
SOP No.:		Department:	QC		
<b>Effective Date:</b>		<b>Review Date:</b>			
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 Sodium Thiosulphate.

## 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 Thiosulphate, Potassium Bromate, conical flask, record book etc.

# **6.2** Preparation:

**6.2.1** Dissolve 25 g of sodium Thiosulphate and 0.2 gm of Sodium carbonate in carbon Dioxide-free water and dilute to 1000 ml with water.

## **6.3** Standardisation:

**6.3.1** Dissolved 0.200 g of Potassium Bromate weight accurately in sufficient water to produced 250.0 ml. to 50 ml of this solution add 2.0 g of potassium iodide and 3 ml of 2 M of hydrochloric acid and, titrate with the sodium thiosulfate solution, using 1



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mL of starch solution, added towards the end of the titration, as indicator until the blue colour is discharged.

One ml of 0.1M sodium thiosulphate is equivalent to 0.002783 g of KBrO<sub>3</sub>.

## Calculation:

## 7.0 Annexures:

**7.1** Annexure-I: Molarity Calculation format of Volumetric Solution 0.1 M Sodium Thiosulphate.

# 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	<b>Brief Description of Change</b>			



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# ANNEXURE-I Molarity Calculation format of Volumetric Solution 0.1 M Sodium Thiosulphate

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

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