



# PHARMA DEVILS

## QUALITY CONTROL DEPARTMENT

### GENERAL TESTING PROCEDURE

**Title:** Iodine 0.1 M

<b>SOP No.:</b>		<b>Department:</b>	QC
<b>Effective Date:</b>		<b>Review Date:</b>	
<b>Revision No.:</b>	00	<b>Page No.:</b>	1 of 3
<b>Supersede SOP No.:</b>	Nil		

#### 1.0 OBJECTIVE:

1.1 To lay down a procedure for the preparation and standardisation of 0.1 M Iodine.

#### 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, Iodine, Potassium iodide, Methyl orange conical flask, record book etc.

##### 6.2 Preparation:

6.2.1 Dissolved 25.4 g of Iodine and 40 g of Potassium Iodide in water and dilute to 1000 ml with the same solvent.

##### 6.3 Standardisation:

1.1.1 To 10 ml of the iodine solution add 1 ml of dilute acetic acid and 50 ml of water. Titrate with 0.1 M sodium thiosulfate, determining the end-point potentiometrically or using starch solution as indicator.



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**1.1 Calculation:**  $N_1V_1=N_2V_2$

#### 7.0 Annexures:

Annexure-I: Molarity Calculation format of Volumetric Solution 0.1 M Iodine.

#### 8.0 Distribution:

Display copy 1 : Instrument Lab

#### 9.0 Abbreviation:

GTP : General Test Procedure

QC : Quality Control laboratories

#### 10.0 Revision History:

Revision history table:

Document Number	CC Number/Date	Brief Description of Change



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### ANNEXURE-I

#### Molarity Calculation format of Volumetric Solution 0.1 M Iodine

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):