# PHARMA DEVILS

## QUALITY CONTROL DEPARTMENT

**GENERAL TESTING PROCEDURE**

**Title:** Iodine 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 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, conical flask, record book etc.

**6.2 Preparation:**

**6.2.1** Dissolved 12.7 g of Iodine and 20 g of Potassium Iodide in water and dilute to 1000 ml with the same solvent.

**6.3 Standardisation:**

**6.3.1** 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.

.

**Calculation:** $N_1V_1=N_2V_2$

.

**7.0 Annexures:**

**7.1** Annexure-I: Molarity Calculation format of Volumetric Solution 0.05 M Iodine.

**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 | CC Number/Date | Brief Description of Change |
|---|---|---|
| | | |

**GENERAL TESTING PROCEDURE**

**Title:** Iodine 0.05 M

| | | | |
|---|---|---|---|
| **SOP No.:** | | **Department:** | QC |
| **Effective Date:** | | **Review Date:** | |
| **Revision No.:** | 00 | **Page No.:** | 3 of 3 |
| **Supersede SOP No.:** | Nil | | |

### ANNEXURE-I

### Molarity Calculation format of Volumetric Solution 0.05 M Iodine

| Sr. 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):