# TESTING PROCEDURE

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No. TM 02	Titrimetry	Revision No.:
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Prepared by :	Approved by :	Page: 1 of 1
OC Section Head	Quality Control Manager	

#### 1. Apparatus

- Buret and stand
- Volumetric flask
- Pipette
- Measuring cylinders
- Conical flask

# 2. Reagent

- 0.1N iodine VS
- Water
- 2 N sulfuric acid
- Starch TS

## 3. Procedure

Sample : 400 mg of Ascorbic Acid

Titrimetric system:

Mode : Direct titration
Titrant : 0.1N iodine VS

3. Endpoint detection: Visual

4. Blank : 100 mL of water and 20 mL of 2N

sulfuric acid. Add 3 mL of starch TS

## Analysis:

Dissolve the *Sample* in a mixture of 100 mL of water and 25 mL of 2N sulfuric acid. Add 3 mL of starch TS, and titrate immediately with *Titrant* until a persistent violetblue color is obtained. Calculate the percentage of ascorbic acid ( $C_6H_8O_6$ ) in the portion of Ascorbic Acid taken:

Result =  $[(V-B) \times N \times F \times 100]/W$ 

V = sample titrant volume (mL) B = blank titrant volume (mL)

N = titrant normality (mE1/mL)

F = equivalent factor, 88.06 mg/mEq

W = weight of Sample (mg)