#### Aim: Preparation of Iodine Throat Paint (Mandl's Paint)

#### References

- 1. Indian Pharmacopoeia Monograph on Mandl's Paint.
- 2. Martindale: The Complete Drug Reference Section on Topical Antiseptics.
- 3. Research articles on "Iodine-Based Antiseptics" from PubMed.

**Objective:** To prepare 100 mL of Iodine Throat Paint (Mandl's Paint) as per standard pharmaceutical formulations for use as a topical antiseptic for throat infections.

acareeril

side

#### **Materials Required**

#### Chemicals:

- Iodine: 1.25 g
- Potassium Iodide: 2.50 g
- Glycerin: 25 mL
- Distilled Water: q.s. to 100 mL

# Equipment:

- Analytical balance
- Beakers (100 mL, 250 mL
- Measuring cylinder (10 mL, 100 mL)
- Stirring rod
- Funnel
- Amber-colored glass bottle
- Dropper

# Principle

Mandl's Paint is a throat antiseptic preparation where iodine serves as the active ingredient. Potassium iodide enhances the solubility of iodine in water. Glycerin is used as a vehicle to provide viscosity, ensure uniform application, and protect the throat mucosa.

#### Procedure

#### 1. Dissolution of Potassium Iodide:

- Weigh 2.50 g of potassium iodide and transfer it into a 100 mL beaker.
- Add 10 mL of distilled water and stir until the potassium iodide dissolves completely.

# 2. Addition of Iodine:

- Weigh 1.25 g of iodine and gradually add it to the potassium iodide solution with constant stirring.
- Continue stirring until the iodine dissolves completely. A clear reddish-brown solution is formed.

# 3. Addition of Glycerin:

- Measure 25 mL of glycerin using a measuring cylinder and add it to the iodine solution.
- Stir thoroughly to ensure uniform mixing.

# 4. Final Volume Adjustment:

• Add distilled water q.s. to make the total volume up to 100 mL. Mix well.

# 5. Packaging:

- Transfer the prepared solution into an amber-colored bottle to protect it from light.
- Ensure the bottle is airtight and attach a dropper cap.

# Label

- **Product Name**: Iodine Throat Paint (Mandl's Paint)
- Usage: Apply a small amount to the throat using a cotton swab or applicator as directed by a physician.
- Storage: Store in a cool, dark place. Keep away from direct sunlight.
- **Precautions**: For external use only. Avoid ingestion.

# Precautions

- 1. Handle iodine with care as it can stain skin and surfaces.
- 2. Use accurate weighing techniques to ensure proper concentration.

- 3. Maintain sterile conditions during preparation to avoid contamination.