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Diploma in Pharmacy 1st Year
Pharmaceutics
Experiment
To Prepare aqueous iodine solution

Aim:

To Prepare aqueous iodine solution

Reference :

‘ Dr. Gupta G.D , Dr. Sharma Shailish , Dr. Sharma Neelam’ “Practical Manual of Pharmaceutics” Published by Nirali Prakashan, Page no 11 - 14

Requirment :

Bunsen burner, tripod stand, wire gauze, spatula, beaker, glass rod, measuring cylinder, potassium iodide, iodine powder, and distilled water.

Theory :

- Aqueous iodine solution is a water-based mixture of potassium iodide and iodine.
- It is a medicine and disinfectant that can be used for various things.
- Before a procedure to repair an overactive thyroid gland, AIS is taken. It aids in reducing the danger of bleeding during the operative procedure.
- Iodine aqueous solution is used to firm up the thyroid and prevent increased vascularity and friability, as well as an increased risk of bleeding that can occur when an antithyroid drug is used alone.
- Iodine is transformed to iodide which is stored in the thyroid gland.

Formulation Table for aqueous iodine solution

Ingredient	Quantity required for 50 ml
Iodine Powder	5g
Potassium Iodide	10 g
Distilled Water	q.s

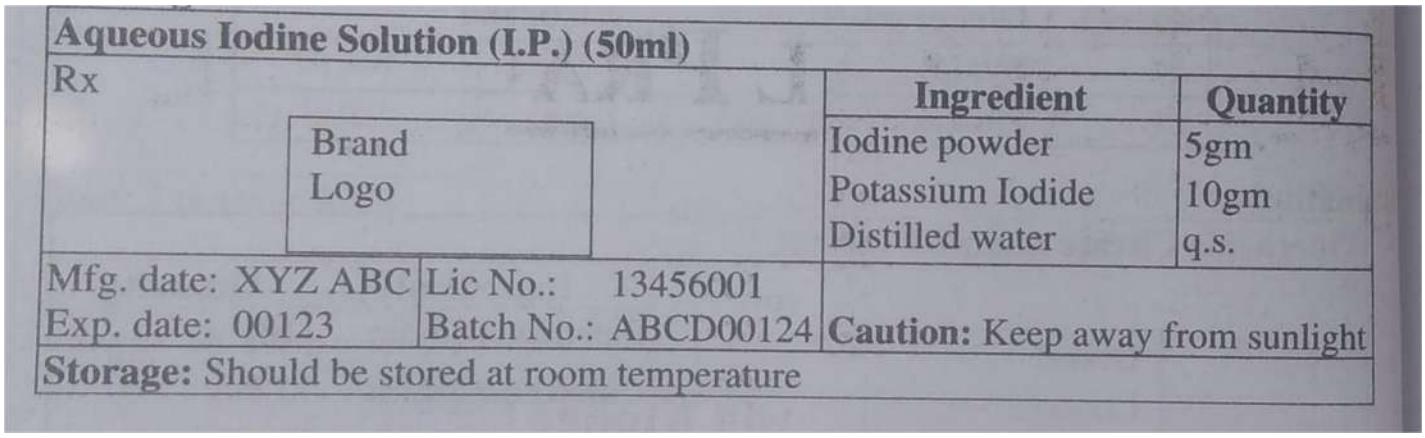
Procedure :

1. KI should be dissolved in about 10gm of distilled water and mixed well.
2. Iodine should be added once KI is dissolved.
3. Mixture should be heated gently with constant mixing until iodine is dissolved.
4. At last, the mixture should be diluted to distilled water to make up the volume.

Packaging and Storage :

- The solution should be stored below 30°C in tightly closed container.
- It should be kept away from bright light.
- It should be used before expiry date mentioned on the label.

Label :



Result :

The aqueous iodine solution was prepared, packaged and labelled.