

**LABEL:**

<p><b>AQUEOUS IODINE SOLUTION</b> <b>50 ml</b></p>	
<p><b>Composition:</b> Iodine Potassium iodide Purified water</p>	<p><b>BATCH NO.:</b> _____      <b>MFG. DATE:</b> _____ <b>MFG. LIC NO.:</b> _____      <b>EXPIRY DATE:</b> _____</p>
<p><b>Category:</b> Antiseptic</p>	
<p><b>FOR EXTERNAL USE ONLY</b></p>	
<p><b>Use:</b> It is used as an antiseptic <b>Storage:</b> Stored in a well closed container at a temperature not exceeding 25<sup>0</sup>C</p>	
<p><b>MFG BY:</b> ABCD</p>	<p>Batch: _____      Roll No.: _____</p>


**DIRECTION OF USE:** This product must be diluted before its usage.

**Adults and adolescents 14 years and over:** Dilute 1 drop of this product in 45 drops of water and take 2 drops of this dilution, once daily.

**Adolescents 9-13 years:** Dilute 1 drop of this product in 45 drops of water and take 1 drop of this dilution, once daily.

**KEEP OUT OF REACH OF CHILDREN** Store in a tightly closed container protected from light. Store in a cool and dry place. Do not use if seal around neck is broken or missing.

**NPN : 80048515**  
**MADE IN CANADA**




**INDICATIONS:** Helps in the maintenance of good health. Helps in the function of the thyroid gland. Helps to prevent iodine deficiency.

**MEDICINAL INGREDIENTS**  
Each drop (0.06ml) contains:

Potassium Iodide .....	14.4mg
Providing 11.01mg of Iodine.	
Iodine .....	7.2mg

**NON-MEDICINAL INGREDIENT:**  
Purified water.



Lugol's Iodine  
solution  
12

Liquid  
Net 1 fl. oz. (30ml)

LOT NUMBER  
EXPIRATION DATE

**Calculation:**

## Experiment - 9

**Aim:** To prepare and submit 30 ml of aqueous iodine solution.

**Reference:**.....

**Requirements:**

**Apparatus Required:**

- Mortar & pestle
- Glass rod
- Funnel etc.
- Weigh balance
- Spatula
- Measuring cylinder,
- Beaker

**Chemical Required:**

- Iodine, potassium iodide and purified water

**Principle:**

In pharmaceutical practice solution are defined as liquid preparation containing one or more chemical substances usually dissolved in water. Aqueous iodine solution is also known as Lugol's Solution and contain 5%w/v of iodine and 10% w/v of potassium iodide.

**Aqueous Iodine Solution Formulation:**

S. No.	Ingredients	Official formula	Required quantities	Uses
1.	Iodine	50gm		
2.	Potassium iodide	100gm		
3.	Purified water	1000ml	50ml	

**Procedure:**

Dissolve potassium iodide and iodine in a purified water. Shake well till it dissolves. Then add sufficient purified water to make up the required volume. Filter and transfer in a suitable container.

**Use:** Antiseptic

**Storage:** Well closed container made up of iodine resistant material.

**Dose:** 0.3 to 2ml.

**Marketed Formulation:**



**Report:** I have prepared the .....ml aqueous iodine solution and dispense in neat and clean container with proper labeling.

### Questions Bank

1. What is Lugol solution?
2. What is the use of aqueous iodine solution?
3. What is the chemical formula of potassium iodide?
4. What is the roll of potassium iodide in the preparation of Lugol solution?
5. What are the antiseptics?
6. What is the colour of iodine?
7. Write the name of two other antiseptics.
8. Write the chemical composition of Dettol.
9. How Lugol solutions work as antiseptics?
10. What is the colour of potassium iodide powder?