

Lugol'S Iodine Staining Solution (1%)

Cat #: A-CSH395

Size: 100mL, 500mL

Storage: Room temperature, avoid light (12 months)

Product Description

Lugol's solution, also known as Lugol's iodine solution or Lugol's reagent, is an aqueous solution of iodine and potassium iodide. It was invented by Lugol in 1829 and named after him. Lugol's iodine solution, formulated according to the classic recipe, has the following uses: detection of starch in samples such as leaves and food; cell staining to facilitate nuclear staining for easier observation. Standard Lugol's staining solution (Lugol's iodine solution, 1%) is suitable for use as a mordant for staining tissue sections. The iodine content in this solution is 1%.

Usage

1. Generally, stain cell smears for 1-2 minutes.
2. For tissue sections, the staining time should be appropriately extended. For specific experiments, follow the specific requirements accordingly.

Notes

1. Prior to smearing, it is advisable to make circular markings on the back of the slide for easy identification of the subsequent experiments.
2. The key to Gram staining lies in strict control of the degree of decolorization. The decolorization time should be determined based on experience. Over-decolorization can lead to false-negative staining of positive bacteria, while insufficient decolorization can result in false-positive staining of negative bacteria. Decolorization can be achieved using 70% ethanol.
3. Prolonged cultivation of positive bacteria, bacterial death, or bacterial dissolution can all lead to negative reactions.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.