

Standard Lugol's Staining Solution (1%)

S1506558

Storage: Room Temperature. Store in the dark.

Introduction:

Lugol's Iodine Solution, also known as Lugol's 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 adopts a classic formulation and has the following uses: detecting starch in samples such as leaves and food; staining cells to color cell nuclei for easier observation. Standard Lugol's Staining Solution (Lugol's Iodine Solution, 1%) is suitable for use as a mordant in staining tissue sections, with an iodine content of 1%.

Operating Procedures (For Reference Only):

1. Stain general cell smears for 1–2 minutes.
2. For tissue sections, appropriately extend the staining time. For special experiments, operate in accordance with specific requirements.

Precautions:

1. Mark a circle on the back of the glass slide in advance before preparing the smear, so as to determine the position for subsequent tests.
2. The key to Gram staining is to strictly control the decolorization degree, and the decolorization time should be determined based on experience. Over-decolorization may cause Gram-positive bacteria to be mistakenly stained as Gram-negative; insufficient decolorization may lead to Gram-negative bacteria being misidentified as Gram-positive. 70% ethanol can be used as the decolorizing agent.
3. Gram-positive bacteria that have been cultured for an excessively long time, or are already dead or lysed, often show a Gram-negative staining reaction.
4. This product is for research use only. Any other use is strictly prohibited.