

## Gram Fluorescent Staining Probe (AIE)

**A1456427**

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**Storage:** Room temperature. Store in the dark.

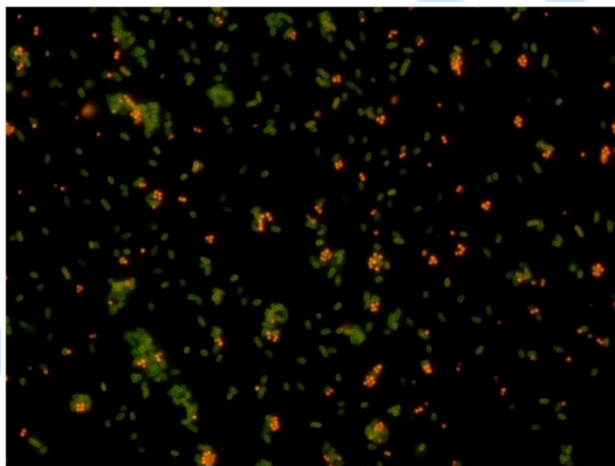
**Intended Use:**

For Gram staining of samples or bacterial liquids.

**Test Principle:**

The outer membrane of Gram - negative bacteria has a barrier function, which can effectively prevent AIE fluorescent dyes from entering the bacteria. However, it can adsorb AIE fluorescent dyes to the surface of the bacteria through electrostatic adsorption, and it shows green fluorescence under a fluorescence microscope. Gram - positive bacteria lack an outer membrane structure, and AIE fluorescent dyes can penetrate the cell membrane and enter the bacteria, showing orange - yellow fluorescence under a fluorescence microscope.

**Product Effect:**



Effect diagram of AIE Gram staining solution

The orange color represents *Staphylococcus aureus*, and the green color represents *Escherichia coli*.

**Sample Requirements:**

Suitable for various secretion samples such as vaginal secretions, sputum, etc., or bacterial liquids after cultivation.

**Test Method:**

Please read this instruction manual carefully before using this product.

Evenly apply the sample on the glass slide with a cotton swab;

1. Take a drop of the staining solution and place it on the glass slide; cover it with a cover slip;
2. Observe the smear through the long - pass B waveband of the fluorescence microscope (Excitation: 460 - 490nm; Emission: > 510nm). Negative bacteria are stained green, and positive bacteria are stained orange.

**Precautions:**

1. When using this product, wear disposable gloves to avoid contact with skin and eyes. Once in contact, immediately rinse with a large amount of water. If swallowed or splashed into the eyes, please seek medical attention in time.
2. The size of the staining solution drops must be adjusted according to the type of specimen and the thickness of the smear.
3. All samples, biological reagents and experimental articles are regarded as potentially infectious. They must be treated as medical waste according to local regulations.
4. If there are any problems or suggestions during the use of this product, please contact the manufacturer.