

Indigo Matrix Reagent

Cat: K8080

Specification: 10mL

Storage: Keep in a dry and dark place at 2-8°C, and it is valid for 1 year.

Product Information

English name: Indigo Matrix Reagent

Appearance (Character): Liquid

Ingredients: p-Dimethylaminobenzaldehyde, n-Amyl Alcohol, Concentrated Hydrochloric Acid

Purpose: Used for the determination of the results of bacterial indole test

Application range: This product is used for microbiological testing of food hygiene, microbiological testing of veterinary biological products, and bacterial indole test in scientific research and teaching samples.

Inspection principle:

Bacteria containing tryptophanase can decompose tryptophan in peptone to produce indole-3-carbinol. After the combination of indigoid and p-dimethylaminobenzaldehyde, a visible red quinone compound, known as rose indigoid, is formed.

Instructions for use:

1. Take fresh pure culture of the bacteria to be tested, inoculate it into tryptone water medium, and incubate it at 36°C for 24-48 hours for testing.
2. Add a few drops of indole reagent to the surface of the culture medium.
3. A rose-red color at the contact point of the two liquids indicates a positive reaction, while no red color indicates a negative reaction

Note

1. The peptone used in the medium should be tryptone with high tryptophan content.
2. If the reagent is left for too long, the color will become darker and it should not be used.
3. After use, it should be placed back in the refrigerator for storage.
4. It is not advisable to use a medium containing sugar for the test, as most bacteria that produce indole can ferment sugars, leading to an increase in the acidity of the medium. While the optimal pH for tryptophanase activity is 7.4-7.8. A decrease in pH can lead to a reduction in indole production, potentially resulting in false negative or weak positive reactions
5. The product information is for reference only. If you have any questions, please call 400-968-6088 for consultation.
6. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.
7. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.