

Lugol'S Iodine Staining Solution (5%, Sterile)

Cat #: A-CSH396

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, was invented by Lugol in 1829 and named after him. Normal vaginal tissue, due to its high glycogen content, is stained brown, while cancerous cells do not take up the color and appear lighter compared to the surrounding tissue. It can also function as an oxidative germicide. Lugol's iodine solution (5%) is suitable for use as a mordant in combination with crystal violet, safranin, etc., for Gram staining of bacteria. The iodine content in the solution is 5%. Lugol's iodine solution (5%, sterile) has undergone sterile processing and is particularly suitable for use as a mordant for cervical smears to assess the possibility of cervical cancer. This reagent is for research purposes only and should not be used for clinical diagnosis or other purposes.

Usage

1. Follow the specific experimental requirements or refer to the following steps.
2. Gently swab the cervix with a saline-soaked cotton ball or dry cotton swab, being careful not to exert too much pressure to avoid damaging the cervical epithelium.
3. Use a soaked cotton ball to apply the solution to the cervix, ensuring that the cotton ball is large enough to cover the entire cervix. After one minute, observe the reaction of the cervical epithelium to Lugol's iodine solution under normal light.
4. Make a preliminary diagnosis based on the degree of non-staining, surface morphology, boundary conditions, size, and distance from the squamocolumnar junction. Normal cervical epithelium appears reddish-brown or black after iodine application, while non-stained areas or partially iodine-stained areas indicate suspicious lesions. CIN lesions or invasive cancer areas appear as thick mustard-yellow or orange-yellow white plaques.

Notes

1. Lugol's staining solution (Lugol's iodine solution, 5%, sterile) has undergone sterile processing, so care should be taken to avoid contamination.
2. This reagent is for research purposes only and should not be used for clinical diagnosis.
3. For your safety and health, please wear a lab coat and disposable gloves while performing the operation.

Disclaimer

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