

Schiff Reagent

Cat #: A-CSH350

Size: 50mL, 100mL

Storage: 2~8°C, avoid light (12 months)

Product Composition

Component	Size		Store at
Schiff reagent	50ml	100ml	2~8°C, and were protected from light

Product Description

Schiff reagent, also known as Schiffs reagent or Schiff's reagent, reacts with aldehyde groups to form a red insoluble complex. Periodic acid is an oxidizing agent that can oxidize adjacent diol groups in polysaccharide molecules into aldehyde groups. Therefore, Schiff reagent is commonly used in conjunction with periodic acid, known as the Periodic Acid-Schiff (PAS) staining method. It is primarily used to detect glycogen or other polysaccharides in tissues.

Usage

1. Dewax the sections and rinse with water.
2. Treat with 0.5% periodic acid solution for 5 minutes.
3. Rinse with running water for 5 minutes, and remove excess water from the sections.
4. Add Schiff reagent and stain for 15 minutes (the sections will turn pink).
5. Rinse with running water for 5 minutes (the sections will turn deep red).
6. Counterstain with Mayer's hematoxylin for 1 minute.
7. Rinse with tap water for 5 minutes.
8. Perform routine dehydration and mount with xylene.
9. Seal the slides with neutral mounting medium.

Staining Results

Glycogen and glycoprotein	Red or purplish red
nucleus	counterstain
cytoplasm	Different shades of red

Notes

1. For your safety and health, please wear laboratory attire and disposable gloves while performing the procedure.
2. Store all reagents at a low temperature and take them out to reach room temperature half an hour before use.
3. It is recommended to keep the temperature for periodic acid treatment below 20°C. If the room temperature is high, the treatment time can be appropriately shortened. The staining time with Schiff reagent can be adjusted according to the temperature. A higher room temperature may require a shorter staining time, while in winter, with lower room temperature, it may need to be extended to around 20 minutes.
4. It is recommended to perform a preliminary experiment with 1-2 samples when using this reagent for the first time

Disclaimer

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