Periodic Acid-Schiff (PAS) Kit

SCHF-K01-100

Storage conditions

Store at 15 - 25 °C, protected from fire and sunlight. Stability of 2 years under recommended storage conditions. If reagent B depletes its staining ability in time (when frequently used or incorrectly stored) add some Sodium bisulphite (Sodium metabisulfite - $Na_2S_2O_5$).

Procedure duration

~35 min.

Content

A. Periodic Acid solution (50 ml)
B. Schiff reagent (50 ml)
C. Mayer's haematoxylin solution (50 ml)

Application

Examination of mucosubstances (mucopolysaccharides), lamina basalis, glycogen deposits in liver etc. in tissue sections. The PAS reaction demonstrates aldehyde groups formed by the oxidation of certain tissue carbohydrates and glycogen.

Method for blood smears

1. Bring sections to water
2. Oxidation in reagent A for 5 min
3. Fast wash in distilled water
4. Cover with drops of reagent B for 5-15 min (duration should be determined due to current laboratory requirements). Cover to avoid evaporation and smell
5. Wash with tap water for 5 min
6. Contra-stain in reagent C for 3-5 min (due to laboratory requirements)
7. Bluish with tap water for at least 2 min
8. Dehydrate in 95% and absolute Ethanol and lighten in Xylene
9. Mount sections in resin (optional) and examine

Visualization

Glycogen, fungi, neutral mucosubstances, and some lamina basalis: Magenta.

Nuclei: Blue.