



Periodic Acid Solution (PAS)

S073

Periodic Acid Solution (PAS) is recommended to be used along with S074 (Schiff's Reagent) to detect aldehyde, glycogen and polysaccharide in cytological and histological specimen.

Composition*

Ingredients

Periodic acid crystals	10.00gm
Distilled water	1000.0ml

**Formula adjusted, standardized to suit performance parameters

Principle And Interpretation

Staining patterns of lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. When treated with periodic acid, glycols are oxidized to aldehydes. After reaction with Schiff's reagent, a pararosaniline adduct is released that stains the glycol-containing cellular elements pink to red. Cellular elements which may be demonstrated with the PAS procedure include glycogen, fungal walls, basement membrane, certain epithelial sulphomucins and sialomucins, neutral mucosubstances, colloid material of the thyroid and the pars intermedia of the pituitary.

Quality Control

Appearance

Colourless liquid.

Clarity

Clear without any precipitate.

Microscopic Examination

PAS staining is carried out and observed under microscope.

Results

PAS positive structures	: Bright red to purple granules in cytoplasm.
Nuclei	: Black or blue
Back ground	: Pink

Storage and Shelf Life

Store at 2-8°C in tightly closed container and away from bright light. Use before expiry date on label.

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Disclaimer :

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