

PERIODIC ACID STAIN KIT (SS013-25)

INTENDED USE

BioMarq PAS Stain Kit is used for *in vitro* diagnostic use. PAS staining is used for staining of higher proportion of macro molecules such as glycogen & mucopoly saccharides containing tumor tissue. PAS Staining Kit may also be used to distinguish a PAS positive secreting adenocarcinoma from an undifferentiated PAS negative squamous cell carcinoma. Fungal secretions in the tissue are also been identified. The results using this product should be interpreted by a qualified pathologist in conjunction with the patient's relevant clinical history, other diagnostic tests and proper controls.

PRODUCT DESCRIPTION

The high molecular weight carbon components, carbon bonds in the tissues, are broken down (oxidized) into aldehyde bonds in the presence of Periodic acid, which then reacts with fuchsin-sulfurous acid present in the Schiff's reagent and gives a magenta color.

KIT CONTENTS

Periodic Acid 0.5% (SS005-8D)	1X8ml
Schiff's reagent I (SS006-8D)	1X8ml
Bluing Reagent (SS009-8D)	1X8ml
Mayer's Hematoxylin (SS007-8D)	1X8ml

MATERIALS REQUIRED BUT NOT PROVIDED

Microscope slides
Xylene/ Xylene substitute
Reagent alcohol/Ethanol
Deionized or distilled water
SS Wash Solution (Catalog No WB005-DC)
Positive Control Slides
Mounting Solutions

STORAGE AND STABILITY

Store at 2-8°C. Do not freeze. Not to be used beyond the expiration date prescribed on label.

SPECIMEN PREPARATION

Fixation: 10% NBF or Carnoy's fixative.

Paraffin Sections: Cut sections at 4-5 microns.

RECOMMENDED PROTOCOL

Deparaffinize with xylene/ xylene substitute and rehydrate through graded alcohols to deionized water. Wash the slide with SS Wash Solution for 3 times.

Stain the slides with 300ul of Periodic acid Solution for 5 min. Wash the slide with SS Wash Solution for 3 times.

Treat the slides with 300ul of Schiff's reagent for 15 min. Wash the slide with SS Wash Solution for 3 times.

Blot & immediately stain the slides in 300ul of Bluing reagent till the section turn pink. Wash the slide with SS Wash Solution for 3 times.

Stain the nuclei with 300ul of Mayer's Hematoxylin solution for 2-5 min. Wash the slide with SS Wash Solution for 3 times

Dehydrate, clear in xylene or its substitute & mount the slides with BioMarq XY-Mount (Catalog No MS002) or using BioMarq T-Mount (Catalog No MS003).

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TECHNICAL NOTE

Bring all reagents to RT before use

Gently invert all reagents prior to use

Thickness of section may affect the intensity of staining

Users can also procure the Positive Control Slides available from BioMarq for their Quality Control purpose.

Follow the protocol recommendations provided in the data sheet. If atypical results occur, contact BioMarq Technical Support at 040-29702960.

REFERENCES

1. Murli Krishna, M.D et al, Role of special stains in diagnostic liver pathology,CLD A Multimed Review Journal, 2013 March 29.
2. Nadia Ovchinsky et al, The Liver Biopsy in Modern Clinical Practice: A Pediatric Point-of-View, Adv Anat Pathol. 2012 July.
3. McManus J.F.A. (1946) Histological demonstration of mucin after periodic acid. Nature (London) 158:202

RECOMMENDED CONTROL

LIVER AND SPLEEN

STAINING INTERPRETATION

Glycogen & fungi –magenta

Nuclei –blue

For image please visit our web site www.biomarq.net

PRECAUTIONS

Specimens should be handled carefully before and after the assay to avoid transmission of infection and disposed of with proper precautions

When working with Special Stain chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles

For detailed safety information related to BioMarq Products, please refer to appropriate safety data sheets (SDS) available online at www.biomarq.net