

PAS GREEN STAIN KIT (SS014-25)

INTENDED USE

BioMarq PAS Green Stain Kit is used for *in vitro* diagnostic use. PAS Green staining procedure is used for identifying fungus in skin infections. Unlike GMS, the PAS-Green technique will not stain all fungi and yeast. However, fungi typically found in dermatologic specimens are commonly identified using PAS-Green. 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 polysaccharide molecules in the fungal cell wall are oxidized with periodic acid to aldehydes which are then stained with Schiff's reagent. The counter stain here is light green which provides excellent contrast background. This method is preferred over H&E to stain fungi.

KIT CONTENTS

Periodic Acid 0.5% (SS005-8D)	1X8ml
Schiff's reagent II (SS043-8D)	1X8ml
Bluing Reagent (SS0009-8D)	1X8ml
Mayer's Hematoxylin (SS07-8D)	1X8ml
Light Green (SS044-8D)	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

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 10 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.

Stain the slides with 300ul of Light Green Solution for 2-3 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).

PAS GREEN STAIN KIT (SS014-25)

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.

RECOMMENDED CONTROL

FUNGI IN INFECTED TISSUES

STAINING INTERPRETATION

Fungi - Magenta

Nuclei - Blue

Background – Light Green

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

REFERENCES

1. Bancroft et al, Theory and Practice of Histological Techniques, Churchill Livingstone Elsevier, 2008.
2. Jeannette Guarner et al, Histopathologic Diagnosis of Fungal Infections in the 21st Century, Clin Microbiol Rev, April 2011.