

## GIEMSA STAIN KIT (SS006-25)

### INTENDED USE

BioMarq Giemsa Stain Kit is used for *in vitro* diagnostic identification of ***Helicobacter Pylori*** bacterium on gastric biopsy sections. ***Helicobacter pylori*** a gram negative spiral bacteria is believed to be the cause of many gastric and peptic ulcers. The bacteria digest the mucus layer of the mucosal and surface cells, leaving the mucosa unprotected against the gastric acid. 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 combination of the azure dyes (methylene blue) and eosin are known as Romanowsky stains which give a wide color range. Methylene blue in an alkaline pH solution stains metachromatic. The qualitative and quantitative composition of staining mixture and the careful differentiation allow in identifying bacteria on tidy ground.

### KIT CONTENTS

Giemsal (SS020-8D)	1X8ml
Giemsall (SS021-8D)	1X8ml
Giemsa Decolorizer (SS022-8D)	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% formalin, Hollande'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 Giemsa I Solution for 3min.

Blot and Stain the slides with 300ul of Giemsa II Solution for 3min. Wash the slides with SS Wash Solution for 3 times.

Stain the slides with 300ul of Giemsa Differentiation Solution for 3min.

Blot dry & mount the slides with BioMarq XY-Mount (Catalog No MS002) or using BioMarq T-Mount (Catalog No MS003).

### 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

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

3. Ashton-Key M, Diss TC, Isaacson PG. Detection of *Helicobacter pylori* in gastric biopsy and resection specimens. J Clin Pathol. 1996 Feb;49(2):107–111.

### RECOMMENDED CONTROL

STOMACH OR COLON containing *Helicobacter pylori*

### STAINING INTERPRETATION

*Helicobacter pylori* - Blue

Nuclei - Blue

Cytoplasm – Pink

For image please visit our web site [www.biomarq.net](http://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](http://www.biomarq.net)

### REFERENCES

1. Iwaki H, Sugiyama T, Asaka M. A modified McMullen's staining for *Helicobacter pylori*: a high-contrast, visibly prominent method. *Helicobacter*. 1998 Mar;3(1):45–48.

2. Madan E, Kemp J, Westblom TU, Subik M, Sexton S, Cook J. Evaluation of staining methods for identifying *Campylobacter pylori*. *Am J Clin Pathol*. 1988 Oct;90(4):450–453.