

Special Stain Kit - Buyer's Guide

Acid Fast Bacteria (AFB) Stain Kit

Description: The Acid Fast Bacteria (AFB) Stain Kit is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This kit is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red
Background: Light Green

<u>Kit Contents</u>	<u>Volume</u>
Carbol Fuchsin Solution	125 ml
Acid Alcohol Solution (0.5%)	500 ml
Light Green Solution	500 ml

<u>Catalog#</u>	<u>Price</u>
FAB-1	\$70.00

Alcian Blue (pH 1.0) Stain Kit

Description: The Alcian Blue (pH 1.0) Stain Kit is intended for use in the histological visualization of strongly sulfated mucosubstances.

Strongly Sulfated Mucosubstances: Blue
Nuclei: Red
Background: Pink

<u>Kit Contents</u>	<u>Volume</u>
Alcian Blue, pH 1.0	250 ml
Safranin O Solution	250 ml
Acetic Acid Solution	500 ml

<u>Catalog#</u>	<u>Price</u>
AFT-1	\$140.00

Alcian Blue (pH 2.5) Stain Kit

Description: The Alcian Blue (pH 2.5) Stain Kit is intended for use in the histological visualization of sulfated and carboxylated acid mucopolysaccharides and sulfated and carboxylated sialomucins (glycoproteins).

Acidic Sulfated Mucosubstances: Blue
Hyaluronic Acid: Blue
Sialomucins: Blue
Nuclei: Red
Background: Pink

<u>Kit Contents</u>	<u>Volume</u>
Alcian Blue, pH 2.5	250 ml
Safranin O Solution	250 ml
Acetic Acid Solution	500 ml

<u>Catalog#</u>	<u>Price</u>
AFR-1	\$140.00

Amyloid Stain Kit (Congo Red)

Description: The Amyloid Stain Kit (Congo Red) is intended for use in the histological visualization of amyloid in tissue sections. Examination under a polarizing microscope results in green birefringence of amyloid.

Amyloid: Red to Pink
Erythrocytes: Light Orange
Eosinophil Granules: Orange to Red
Nuclei: Blue

<u>Kit Contents</u>	<u>Volume</u>
Congo Red Solution	500 ml
Hematoxylin, Mayer's	500 ml
Bluing Reagent	500 ml

<u>Catalog#</u>	<u>Price</u>
AMY-1	\$159.00

Calcium Stain Kit (Modified Von Kossa)

Description: The Calcium Stain Kit (Modified Von Kossa) is intended for use in the histological visualization of calcium deposits in paraffin or frozen sections.

Calcium in mass deposits: Black
Calcium in dispersed deposits: Gray
Nuclei: Red
Cytoplasm: Light Pink

<u>Kit Contents</u>	<u>Volume</u>
Silver Nitrate Solution (5%)	125 ml
Sodium Thiosulfate Solution (5%)	125 ml
Nuclear Fast Red Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
CVK-1	\$99.00

Colloidal Iron Stain Kit

Description: The Colloidal Iron Stain Kit is designed for the histological visualization of acid mucopolysaccharides.

Acid Mucopolysaccharides: Bright Blue
Collagen: Shades of Red

<u>Kit Contents</u>	<u>Volume</u>
Acetic Acid Solution (12%)	500 ml
Hydrochloric Acid Solution (1N)	125 ml
Potassium Ferrocyanide Solution (3%)	125 ml
Colloidal Iron Stock Solution	125 ml
Van Gieson's Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
CIK-1	\$95.00

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Copper Stain Kit (For Microwave)

Description: The Copper Stain Kit (For Microwave) is intended for the demonstration of copper deposits in tissue sections.

Copper Deposits: Light Brown to Red
Nuclei: Blue

<u>Kit Contents</u>	<u>Volume</u>
Rhodanine Solution (Stock)	30 ml
Acetate Buffer Solution, pH 8.0	2 x 500 ml
Hematoxylin, Mayer's (Lillie's Mod.)	125 ml

<u>Catalog#</u>	<u>Price</u>
CSK-1	\$125.00

Elastic Stain Kit (Modified Verhoff's)

Description: The Elastic Stain Kit is intended for use in histological demonstration of elastin in tissue sections. Demonstration of elastic tissue is useful in cases of emphysema (atrophy of elastic tissue), arteriosclerosis (thinning and loss of elastic fibers) and various other vascular diseases.

Elastic fibers: Black to Blue/Black
Nuclei: Blue to Black
Collagen: Red
Muscle & Other: Yellow

<u>Kit Contents</u>	<u>Volume</u>
Hematoxylin Solution (5%)	250 ml
Ferric Chloride (10%, Aqueous)	125 ml
Lugol's Iodine Solution	125 ml
Ferric Chloride (2%) Differentiating Sol.	125 ml
Sodium Thiosulfate Solution (5%)	125 ml
Van Gieson's Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
ETS-1	\$119.00

Fite's Stain Kit (Leprosy & Nocardia Procedures)

Description: The Fite's Stain Kit (For Leprosy) is intended for use in the histological visualization of mycobacterium leprae (leprosy).

Lepra bacillus: Red
Nocardia: Red
Background: Blue

<u>Kit Contents</u>	<u>Volume</u>
Xylene - Peanut Oil Solution	125 ml
Carbol Fuchsin Solution	125 ml
Acid Alcohol Solution (1%)	500 ml
Methylene Blue Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
FLS-1	\$90.00

Fontana-Masson Stain Kit (For Argentaffin Cells and Melanin)

Description: The Fontana-Masson Stain Kit is intended for use in the histological visualization of Argentaffin cells and Melanin in paraffin or frozen sections.

Argentaffin Cells: Black
Melanin: Black
Nuclei: Red
Cytoplasm: Light Pink

<u>Kit Contents</u>	<u>Volume</u>
Gold Chloride Solution (0.2%)	125 ml
Silver Nitrate Solution (10%)	5 x 9ml
Sodium Thiosulfate Solution (5%)	125 ml
Nuclear Fast Red Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
FMS-1	\$119.00

Giemsa Stain Kit (May-Grunwald)

Description: The Giemsa Stain Kit (May-Grunwald) is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

Nuclei: Blue/Violet
Cytoplasm: Light Blue
Collagen: Pale Pink
Muscle Fibers: Pale Pink
Erythrocytes: Gray, Yellow or Pink
Rickettsia: Reddish-Purple
Helicobacter Pylori: Blue
Mast Cells: Dark Blue with Red Granules

<u>Kit Contents</u>	<u>Volume</u>
May-Grunwald Solution	500 ml
Giemsa Stock Solution	500 ml
Phosphate Buffer Solution, pH 6.8	500 ml

<u>Catalog#</u>	<u>Price</u>
GMG-1	\$109.00

All Kit Components
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GMS Stain Kit (Modified Gomori Methenamine-Silver Nitrate Stain for Fungus and Pneumocystis carinii)

Description: The Modified Gomori Methenamine-Silver Nitrate Stain (GMS Stain Kit) is intended for use in the histologic visualization of fungi, basement membrane and some opportunistic organisms such as *Pneumocystis carinii*. *Pneumocystis carinii* is an opportunistic pathogen that causes severe pulmonary disease in humans, dogs, rats, mice and other vertebrate species with acquired, induced, or inherited immune deficiency syndromes. In addition, this procedure will demonstrate *Actinomyces* and related species, *Nocardia* asteroids, and certain encapsulated bacteria.

Fungi:	Black
P. Carinii:	Black
Mucin:	Gray
Mycelia (inner):	Rose
Hyphae (inner):	Rose
Background:	Light Green

<u>Kit Contents</u>	<u>Volume</u>
Silver Nitrate Solution (For GMS)	125 ml
Methenamine Solution (For GMS)	125 ml
Gold Chloride Solution (0.2%)	125 ml
Borax Solution (For GMS)	15 ml
Sodium Bisulfite Solution (For GMS)	125 ml
Chromic Acid Solution (For GMS)	125 ml
Sodium Thiosulfate Solution (5%)	125 ml
Light Green Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
KAA-1	\$119.00

Gram Stain Kit (McDonald's)

Description: The Gram Stain Kit (McDonalds) is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria:	Blue
Gram Negative Bacteria:	Red
Other Tissue:	Yellow
Nuclei:	Red

<u>Kit Contents</u>	<u>Volume</u>
Gentian Violet Solution	125 ml
Lugol's Iodine Solution	125 ml
Gram's Decolorizer Solution	125 ml
Carbol Fuchsin Solution	125 ml
Tartrazine Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
GSK-1	\$95.00

Hepatitis B Stain Kit

Description: The Hepatitis B Stain Kit is intended for use in the histological visualization of Hepatitis B surface antigen (HBsAg). This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

HBsAg: Dark Brown

<u>Kit Contents</u>	<u>Volume</u>
Potassium Permanganate Sol. (5%)	30 ml
Sulfuric Acid Solution (3%)	30 ml
Oxalic Acid Solution (2%)	125 ml
Orcein Solution	125 ml
Differentiating Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
HBK-1	\$169.00

H. Pylori Rapid Stain Kit

Description: The H. Pylori Rapid Stain Kit is designed for demonstrating *Helicobacter Pylori* infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue as well as frozen sections.

Helicobacter Pylori: Blue
Mucin: Yellow
Background: Light Blue

<u>Kit Contents</u>	<u>Volume</u>
Periodic Acid Solution	500 ml
Sodium Metabisulfite Solution	125 ml
Alcian Yellow Solution	125 ml
Toluidine Blue Solution	6 ml x 2
Sodium Hydroxide Solution (3%)	8 ml

<u>Catalog#</u>	<u>Price</u>
AYH-1	\$149.00

Instructions For Use
and Bulk Pricing are
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Iron Stain Kit

Description: The Iron Stain Kit is intended for use in the detection of ferric iron in tissues, blood smears, or bone marrow smears. Ferric iron is normally found in small amounts in bone marrow and the spleen. Abnormally large deposits may be seen in hemochromatosis and hemosiderosis. This product is based on the Prussian Blue reaction in which ionic iron reacts with acid ferrocyanide producing a blue color.

Tissue Sections

Iron:	Bright Blue
Nuclei:	Red
Background:	Pink

Bone or Blood Smears

Sideroblasts: These are nucleated erythrocytes containing at least one small blue granule. If the blue granules surround the nucleus, the cell is a ringed sideroblast.

Siderocytes: These are non-nucleated erythrocytes containing at least one blue granule.

Reticuloendothelial Iron: Usually seen as blue particles on the marrow smear or as blue particles in the cytoplasm or phagocytic cells.

<u>Kit Contents</u>	<u>Volume</u>
Potassium Ferrocyanide Solution	500 ml
Hydrochloric Acid Solution (2%)	500 ml
Nuclear Fast Red Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
IRN-1	\$90.00

Luxol Fast Blue Stain Kit

Description: The Luxol Fast Blue Stain Kit is designed for staining myelin/myelinated axons and Nissl substance on formalin fixed, paraffin-embedded tissue as well as frozen tissue. This product is used for identifying the basic neuronal structure in brain or spinal cord sections.

Myelinated Fibers:	Blue
Nissl Substance:	Violet
Nerve Cells:	Violet

<u>Kit Contents</u>	<u>Volume</u>
Cresyl Echt Violet Solution	125 ml
Luxol Fast Blue Solution	125 ml
Lithium Carbonate Solution (0.05%)	500 ml
Alcohol, Reagent (70%)	500 ml

<u>Catalog#</u>	<u>Price</u>
LBC-1	\$125.00

Mucicarmine Stain Kit (Modified Southgates's)

Description: Mucicarmine Stain Kit (Modified Southgate's) is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of *Cryptococcus neoformans*.

Mucin:	Pink/Red
Capsule of <i>Cryptococcus</i> :	Red
Nuclei:	Black/Blue
Other tissue components:	Yellow

<u>Kit Contents</u>	<u>Volume</u>
Hematoxylin, Mayer's	125 ml
Bleuing Reagent	125 ml
Mucicarmine Solution	125 ml
Tartrazine Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
SMS-1	\$99.00

Oil Red O Stain Kit (For Fat)

Description: Oil Red O Stain Kit (For Fat) is intended for use in the histological visualization of fat cells and neutral fat. This kit may be used **ONLY** on frozen tissue sections, fresh smears, or touch preps.

Fat Cells:	Red
Neutral Fat:	Red
Nuclei:	Blue

<u>Kit Contents</u>	<u>Volume</u>
Propylene Glycol	500 ml
Oil Red O Solution	125 ml
Hematoxylin, Mayer's	125 ml

<u>Catalog#</u>	<u>Price</u>
ORK-1	\$129.00

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Periodic Acid Schiff (PAS) Stain Kit (Modified Lillie's)

Description: The Periodic Acid Schiff (PAS) Stain Kit is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta
Nuclei: Black/Blue

<u>Kit Contents</u>	<u>Volume</u>
Periodic Acid Solution	250 ml
Schiff's Solution	250 ml
Hematoxylin, Mayer's	125 ml
Bluing Reagent	125 ml

<u>Catalog#</u>	<u>Price</u>
PAS-1	\$99.00

Periodic Acid Schiff (PAS) for Fungus Stain Kit

Description: The Periodic Acid Schiff (PAS) for Fungus Stain Kit is intended for use in histological demonstration of fungal organisms in tissue sections. The PAS reaction is also useful in the demonstration of lymphocytes and mucopolysaccharides. The staining patterns of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia.

Fungal Organisms: Magenta
PAS Positive Material: Magenta
Nuclei: Black/Blue

<u>Kit Contents</u>	<u>Volume</u>
Periodic Acid Solution	250 ml
Schiff's Solution	250 ml
Light Green Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
PASF-1	\$99.00

Pneumocystis Stain Kit

Description: The Pneumocystis Stain Kit is intended for use in the histological visualization of Pneumocystis carinii in cytology smears, and paraffin or frozen tissue sections.

Pneumocystis carinii: Violet / Purple
Connective Tissue: Blue / Green
Erythrocytes: Yellow
Mucin: Rose / Purple
Cartilage: Rose / Purple

<u>Kit Contents</u>	<u>Volume</u>
Cresyl Echt Violet Solution (0.1%)	125 ml
Naphthol Yellow S Solution	125 ml
Staining Jar	60 ml

<u>Catalog#</u>	<u>Price</u>
PCS-1	\$95.00

P.T.A.H. Stain Kit for Microwave (Phosphotungstic Acid Hematoxylin)

Description: The P.T.A.H. Stain Kit for Microwave is intended for use in the histological visualization of collagen, striated muscle, glial fibers and collagen without using Zenker's Fixative with Mercuric Chloride as a mordant. This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

Fibrin, Striated Muscle, Glial Fibers: Blue
Collagen: Brownish/Red
Nuclei: Blue

<u>Kit Contents</u>	<u>Volume</u>
Zinc Chloride Solution (10%)	500 ml
Ferric Ammonium Sulfate	125 ml
P.T.A.H. Solution	125 ml

<u>Catalog#</u>	<u>Price</u>
PTA-1	\$119.00

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Warthin-Starry Stain Kit

Description: The Warthin-Starry Stain Kit is intended for use in the visualization of Spirochetes, Helicobacter pylori, Legionella pneumophila, and Cat Scratch Fever bacteria. This kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

Helicobacter pylori:	Black
Legionella pneumophila:	Black
Spirochetes:	Black
Cat Scratch Fever Bacteria:	Black
Klebsiella:	Brown/Black
Nuclei:	Brown
Background:	Yellow

<u>Kit Contents</u>	<u>Volume</u>
Spirochete Sensitizer	125 ml
Gelatin (4%), Acidulated	125 ml
Silver Nitrate Solution (0.5%), Acidulated	125 ml
Hydroquinone Solution (0.1%), Acidulated	2x30 ml
Silver Nitrate Solution (2%), Acidulated	30 ml

<u>Catalog#</u>	<u>Price</u>
WSS-1	\$119.00