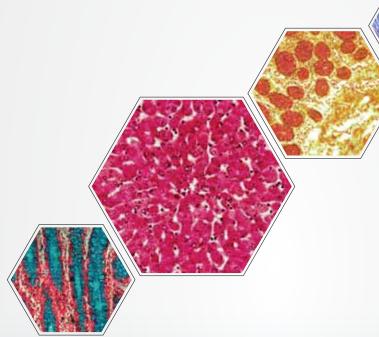
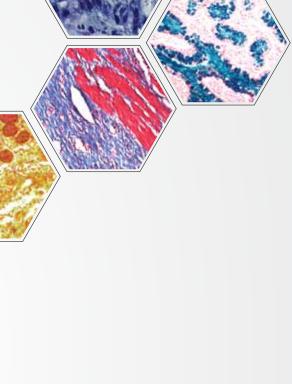
Fully Automated

Special Stains







Over 30 Stains GMS, Trichrome Reticulin and...



Elegance on the Glass Slide... ...from Microtome to Microscope





Elegance on the Glass Slide...
...from Microtome to Microscope

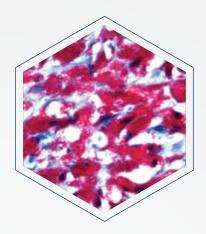


Three Simple Steps:



Key Features:

- Fully Automated baking through final coverslip
- High capacity & High Throughput system
- Fast turnaround
- Broadest menu available from any where over 30 SS
- Crisp, intense, reliable and reproducible stains
- Ability to optimize protocols for customized intensity
- Eco-friendly up to 75% reduced
 - Reagent consumption
 - Waste generation
- Easy inventory management with RFID driven system
- Reports for inventory management and regulatory compliance

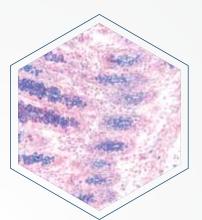


Acid-Fast Bacteria (AFB) Blue Stain

Acid-fast stain is used for demonstration of Mycobacterium tuberculosis in tissue sections and smears. Acid-fast bacilli (Mycobacteria) stain red while background & non Acid-fast bacteria stain blue.

Catalog No. : SSO25
Acid-fast bacilli : Red
Non Acid-fast bacteria : Blue

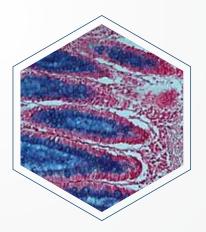
Positive Control : AFB infected tissue & Smears



Alcian Blue / PAS Stain

Alcian Blue/PAS stain utilizes the properties of both, the PAS and Alcian Blue methods. Acidic mucosubstances are stained with the Alcian Blue technique and neutral mucosubstances are stained by the PAS stain.

Catalog No. : SS026
Acidic mucins : Blue
Neutral mucins : Magenta
Mixtures of above : Blue/Purple
Nuclei : Deep blue
Positive Control : Intestine



Alcian Blue pH 2.5 Stain

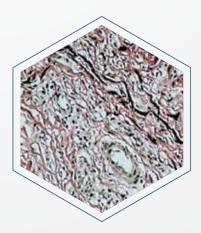
Alcian Blue pH 2.5 stains both sulfated and carboxylated acid mucopolysaccharides as well as sulfated and carboxylated sialomucins (glycoproteins) to blue color. Nuclear fast red counter stains the nuclei in red color.

Catalog No. : SSO27

Acidic sulfated

mucosubstances : Blue
Nuclei : Pink to Red
Cytoplasm : Pale Pink

Positive Controls : Small Intestine, Appendix, or Colon



Elastic Stain

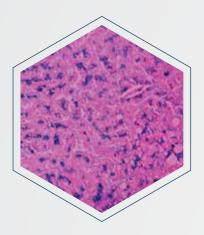
Elastic staining procedure can demonstrate elastic fibers which stain dark blue to black, whereas nuclei, collagen and other tissue elements stain blue, red and yellow, respectively.

Catalog No. : SSO29

Elastic fibers : Blue-Black to Black
Nuclei : Blue to Black
Collagen : Red
Other tissue elements : Yellow

Positive Controls : Skin



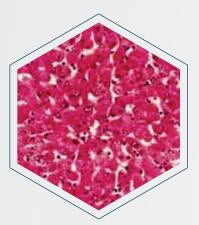


Iron Stain

In Iron staining method ferric iron, loosely bound in protein complexes, reacts with acidic potassium ferrocyanide producing a blue color.

Catalog No. : SS030
Iron (ferric form) : Bright blue
Nuclei : Red
Cytoplasm : Pink

Positive Controls : Liver & Spleen

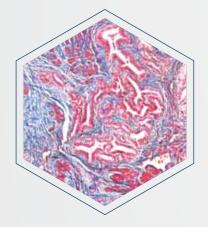


Periodic Acid-Schiff (PAS) Stain

PAS staining is mainly used for staining structures containing a high proportion of carbohydrate macromolecules such as glycogen, glycoprotein, & proteoglycans typically found in connective tissues, mucus, glycocalyx, and basal laminae.

Catalog No. : SS032
Glycogen & Mucin : Red/Purple
Background : Blue

Positive Controls : Liver, Cardiac and Skeletal Muscle



Gomori's Trichrome Blue Stain

Gomori's trichrome stain is useful in the study of diseases of connective tissue and muscles characterized by fibrotic and dystrophic changes, and to differentiate between collagen and smooth muscles.

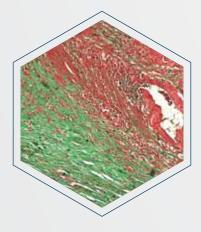
Catalog No. : SS033

Muscle fibres : Red

Collagen : Blue

Nuclei : Blue Black

Positive Controls : Uterus, Striated Muscle, Small Intestine or any other Connective tissue



Gomori's Trichrome Green Stain

Gomori's trichrome stain is useful in the study of diseases of connective tissue and muscle characterized by fibrotic and dystrophic changes and to differentiate between collagen and smooth muscles.

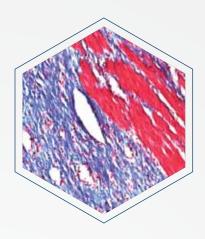
Catalog No. : SSO34

Muscle fibres : Red

Collagen : Green

Nuclei : Blue black

Positive Controls : Uterus, Striated Muscle, Small Intestine or any other Connective tissue

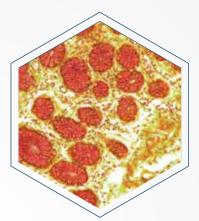


Masson's Trichrome Stain

Masson's Trichrome, a mixture of three stains, is useful in the study of diseases of connective tissue and muscle characterized by fibrotic and dystrophic changes. It also differentiates between collagen and smooth muscles.

Catalog No. : SSO35
Collagen : Blue
Nuclei : Black
Muscle, Cytoplasm, Keratin : Red

Positive Controls : Skin, Lung, Stomach & Intestine



Mucicarmine Stain

Mucicarmine preferentially stains mucin and is used to identify primary tumor sites, distinguishing mucin-negative undifferentiated squamous cell lesions from mucinpositive adenocarcinomas.

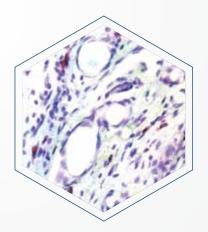
Catalog No. : SS036

Mucins : Deep Rose

Nuclei : Black

Other Tissue elements : Yellow

Positive Controls : Colon



Azure A Stain

Mast cells normally present in the connective tissue of all organs are increased in many pathological conditions. Mast cell granules which are refractile and not readily identified in H&E stained sections are well demonstrated by Azure A method.

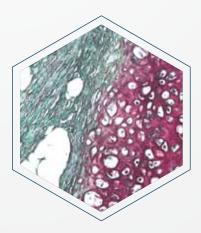
Catalog No. : SS038

Mast cell granules : Purple

Nuclei : Blue

Background : Pale blue

Positive Controls : Skin



Safranin O Stain

Safranin O staining method is used for the detection of cartilage, mucin and mast cell granules on FFPE and frozen sections. The cartilage and mucin will be stained orange to red, and the nuclei will be stained black.

Catalog No. : SS040

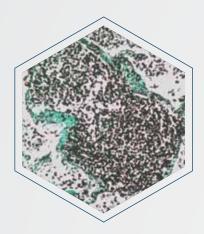
Nuclei : Black

Cytoplasm : Grey Green

Cartilage, Mucin

& Mast cell granules : Orange to Red
Positive Controls : Cartilage





Grocott's Methenamine Silver (GMS) Stain

: SS042

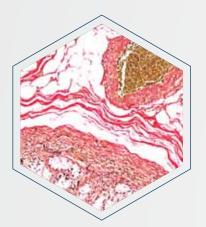
GMS staining is specific for demonstrating fungi in tissue sections. Fungi stain grey to black with a light green background.

Catalog No.

Fungi, P. carinii,

Histoplasma spp : Black
Mucin : Dark grey
Background : Pale green

Positive Controls : Fungi in tissue sections



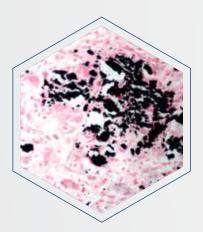
Van Gieson Stain

Van Gieson Stain is used to differentiate between collagen and smooth muscles in tumors and to demonstrate the increase of collagen in diseases.

Catalog No. : SSO44
Collagen : Bright red
Nuclei : Blue black

Cytoplasm, Muscle,

Fibrin & RBC's : Yellow
Positive Controls : Stomach



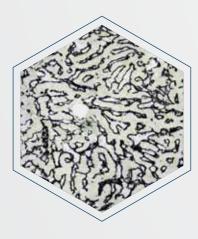
von Kossa Stain

Abnormal deposits of calcium may be found in any area of the body. von Kossa staining is used to demonstrate deposits of calcium.

Catalog No. : SSO45
Nuclei : Red
Cytoplasm : Pink

Calcium salts : Black or brown black

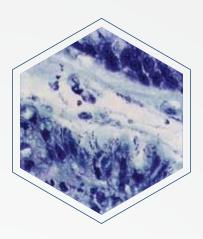
Positive Controls : Tissue containing known positive calcium deposits, or undecalcified bone



Reticulin/No Counterstain Stain

Reticulin staining is used to visualize reticular fiber and used extensively in liver. Reticulin staining may be used for the differential diagnosis of tumors such as carcinomas, sarcomas and lymphomas.

Catalog No. : SS046
Reticulin fibers : Black
Nuclei : Black
Positive Controls : Liver & Spleen



Giemsa Stain

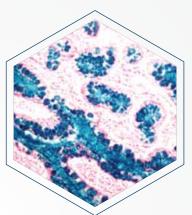
Giemsa staining is useful for detecting *Helicobacter pylori*, the causative agent of most stomach and duodenal ulcers.

Catalog No. : SSO49

Helicobacter pylori

& Nuclei stain : Dark blue Cytoplasm : Pink

Positive Controls : Helicobacter pylori in tissue sections

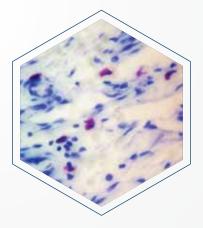


Colloidal Iron Stain

Colloidal Iron stain is used to identify carboxylated, sulfated mucopolysaccharides and glycoprotein mucins which at low pH absorb colloidal ferric ions present in the tissues. The Prussian blue reaction demonstrates iron bound to the tissue.

Catalog No. : SS054
Acid mucins : Deep blue
Nuclei : Pink-Red
Cytoplasm : Pink

Positive Control : Small Intestine Tissue



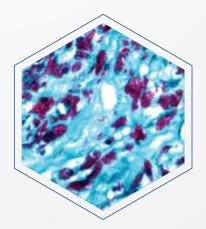
Toluidine Blue

Mast cells normally present in the connective tissue of all organs are increased in many pathological conditions. Mast cell granules which are refractile and not readily identified in H&E stained sections are well demonstrated by Toluidine blue staining method.

Catalog No. : SS057

Mast cell granules sulphated

& carboxylated mucins : Purple
Nuclei : Blue
Background : Pale Blue
Positive Control : Skin



Acid-Fast Bacteria (AFB) Green Stain

Acid-fast stain is used for demonstration of $Mycobacterium\ tuberculosis$ in tissue sections and smears. Acid-fast bacilli (Mycobacteria) stain red while background & non Acid-fast bacteria stain green.

Catalog No. : SS059
Acid-fast bacilli : Red
Non Acid-fast bacteria : Green

Positive Control : Mycobacterium infected tissues



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Doc. No. 907-4084.0

Ordering Information

Product Name	Pack Size	Cat. No.	Product Name	Pack Size	Cat. No.
Acid-Fast Bacteria Stain Kit (Blue)	50 Tests	SS025-50X	GMS Stain Kit	50 Tests	SS042-50X
Alcian Blue/PAS Stain Kit	50 Tests	SS026-50X	Oil Red O Stain Kit*	50 Tests	SS043-50X
Alcian Blue pH 2.5 Stain Kit	50 Tests	SS027-50X	Van Gieson Stain Kit	50 Tests	SS044-50X
Amyloid (Congo Red) Stain Kit*	50 Tests	SS028-50X	von Kossa Stain Kit	50 Tests	SS045-50K
Elastic Stain Kit	50 Tests	SS029-50X	Reticulin/No Counterstain Stain Kit	50 Tests	SS046-50X
Iron Stain Kit	50 Tests	SS030-50X	Reticulin/Nuclear Fast Red Stain Kit	50 Tests	SS047-50X
Warthin-Starry Stain Kit*	50 Tests	SS031-50X	Giemsa Stain Kit	50 Tests	SS049-50X
PAS Stain Kit	50 Tests	SS032-50X	Renal Masson's Trichome Stain Kit	50 Tests	SS050-50X
Gomori's Trichrome Blue Stain Kit	50 Tests	SS033-50X	Alizarin Red Stain Kit*	50 Tests	SS052-50X
Gomori's Trichrome Green Stain Kit	50 Tests	SS034-50X	PAS for Fungi Stain Kit*	50 Tests	SS053-50X
Masson's Trichrome Stain Kit	50 Tests	SS035-50X	Colloidal Iron Stain Kit	50 Tests	SS054-50X
Mucicarmine Stain Kit	50 Tests	SS036-50X	Bielschowsky's Silver Stain Kit*	50 Tests	SS055-50X
Gram Stain Kit	50 Tests	SS037-50X	Nissl Stain Kit*	50 Tests	SS056-50X
Azure A Stain Kit	50 Tests	SS038-50X	Toluidine Blue Stain Kit	50 Tests	SS057-50X
Safranin O Stain Kit	50 Tests	SS040-50X	Jones Basement Membrane Stain Kit*	50 Tests	SS058-50X
Sudan Black B Stain Kit*	50 Tests	SS041-50X	Acid-Fast Bacteria Stain Kit (Green)	50 Tests	SS059-50X

* To be released soon



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