Mission

Keeping it real: Our job is to help you get your job done! Everything we do is designed with your needs out front. Our goal is to make sure your goals are met.

Keeping the lines of communication open: Our technical support staff is ready to help you solve problems, resolve concerns, and make sure that your procedures run as smoothly as possible.

Keeping prices competitive: We take pride in making sure our products arrive at your lab with the fairest price possible.

Keeping a sense of humor: Life is Good! Don’t forget that. We won’t. If you’re having a bad day, don’t worry, it’s our joy to make sure your day is full of HISTOCALIFRAGILISTICEXPIALIDOCIOUS!

PLACING AN ORDER
To place an order contact customer service at your earliest convenience by phone, fax, mail, or email. Our helpful staff is available and ready to help you find the histology products you need. To see our most current product listings, please visit our website at www.newcomersupply.com.

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We work hard to bring you the best histology supply services available. Please call 800-383-7799 or e-mail info@newcomersupply.com anytime with any questions or comments.

“There are two ways to live your life. One is as though nothing is a miracle. The other is as though everything is a miracle.” - Albert Einstein
USAGE
All Newcomer Supply Stain Kits are designed to be used with 50ml Coplin jars filled to 40ml. Follow the staining procedure provided in your kit. Some solutions may contain extra volumes. 250ml is sufficient for 6 staining runs. 500ml is sufficient for 12 staining runs.

PROCEDURE
All stain kits will include a Technical Memo and SDS. The Technical Memo includes information on: application, method, staining procedure, results, procedure notes and references. Technical Memos and SDSs can also be found on our website.

CONTROL SLIDES
Most Newcomer stain kits come with two complimentary unstained control slides to be used for the initial verification of staining techniques and reagents. We suggest running one slide along with your in-house control slide for the first run. Retain the second control slide for further troubleshooting, if needed.

STORAGE
For storage temperature refer to component bottle labels.

COMPONENTS
Components for many of our stain kits are available for purchase individually.

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H = Hazardous chemical shipping requirements and air shipment Hazardous Material Fee.

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### AFB, Basic Fuchsin, Ellis & Zabrowarny Stain Kit

Stains acid-fast bacilli without the use of phenol. A surfactant substitution is made for phenol which renders the bacterial cell wall permeable to the stain. Results are comparable to the traditional Ziehl-Neelsen method. Microwave Modification Included

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<tr>
<th>PART</th>
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<td>91012A</td>
<td>250ml</td>
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### AFB, Fite Stain Kit

Detects the presence of either Nocardia sp. or Mycobacterium leprae sp. (causative agent of leprosy) in tissue sections.

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### AFB, Ziehl-Neelsen Stain Kit

Detects the presence of acid-fast mycobacteria in tissue sections. Carbol Fuchsin Stain, Ziehl-Neelsen, combines phenol and basic fuchsin that works to permeate the lipid capsule of acid-fast organisms and renders them resistant to acid alcohol decolorization.

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</table>

### Alcian Blue 1%, pH 2.5 Stain Kit

Stains acid epithelial mucin (sialomucin, sulfomucin) as well as stromal (mesenchymal) mucin. Hyaluronidase digestion step can be employed for further differentiation of acid epithelial from stromal mucin.

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<thead>
<tr>
<th>PART</th>
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<tbody>
<tr>
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<td>250ml</td>
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<tr>
<td>9102B</td>
<td>500ml</td>
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</table>
### Alcian Blue/PAS Stain Kit
Differentiates between acidic epithelial mucins (sialomucin, sulfomucin) and neutral epithelial mucin and is a means of detecting the overall presence of mucins. Acidic mucins are stained with the Alcian Blue technique while neutral mucins and glycogen are stained by the PAS reaction.

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<th>PART</th>
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<tr>
<td>91022A</td>
<td>250ml</td>
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<td>91022B</td>
<td>500ml</td>
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</table>

### Amyloid, Bennhold Congo Red Stain Kit
Identifies the extraneous protein deposits in amyloidosis. The use of polarizing lenses is the essential technique for visualizing amyloid positive areas and/or to confirm negativity. Microwave Modification Included

<table>
<thead>
<tr>
<th>PART</th>
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<tr>
<td>9103A</td>
<td>250ml H</td>
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### Amyloid, Puchtler Congo Red Stain Kit
Identifies the extraneous protein deposits in amyloidosis. The use of polarizing lenses is the essential technique for visualizing amyloid positive areas and/or to confirm negativity.

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### Basement Membrane, Gomori Stain Kit
A straightforward silver technique similar to the Jones Method for identification of glomerular and tubular basement membranes in renal tissue. Microwave Modification Included

<table>
<thead>
<tr>
<th>PART</th>
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<td>9167A</td>
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</table>
STAIN KITS

Bielschowsky, Lester-King Modified Stain Kit


PART 9154A VOLUME 250ml

Colloidal Iron, Müller-Mowry Stain Kit

Stains acid epithelial mucin (sialomucin, sulfomucin) and stromal (mesenchymal) mucin and also demonstrates encapsulated yeast Cryptococcus neoformans.

PART 9110A VOLUME 250ml

Copper, Rhodanine Stain Kit

Used for the detection of copper and copper-associated protein (CAP) in tissue sections.

Microwave Modification Included

PART 9113A VOLUME 250ml

Differential Stain Kit

Differential staining of peripheral blood smears, touch imprints, fine needle aspirations (FNA), bone marrow biopsy aspirations, as well as detecting Helicobacter pylori sp. in GI tissue. Can be used for smears, touch imprints and tissue sections. This is a modification of the Wright Giemsa Stain technique using aqueous based stain solutions and a methanol fixative. Procedures for both monochromatic and polychromatic versions of the Differential Stain are provided.

Complimentary Control Slides Not Included

PART 9112B VOLUME 500ml
<table>
<thead>
<tr>
<th><strong>Elastic, Verhoeff Stain Kit</strong></th>
<th><strong>PART</strong></th>
<th><strong>VOLUME</strong></th>
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</thead>
<tbody>
<tr>
<td>9116A</td>
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<tr>
<td>9116B</td>
<td>500ml</td>
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</tbody>
</table>

**Used to demonstrate pathologic changes in elastic fibers as well as demonstration of normal elastic tissue such as arteries and veins.**

<table>
<thead>
<tr>
<th><strong>Fat, Oil Red O, Propylene Glycol Stain Kit</strong></th>
<th><strong>PART</strong></th>
<th><strong>VOLUME</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9119A</td>
<td>250ml</td>
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</table>

**Used for identification of fat/lipid in frozen sections.**

<table>
<thead>
<tr>
<th><strong>Fontana Masson Stain Kit</strong></th>
<th><strong>PART</strong></th>
<th><strong>VOLUME</strong></th>
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<tbody>
<tr>
<td>9105A</td>
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</table>

**Stains argentaffin substances such as melanin, argentaffin granules of carcinoid tumors, and some neurosecretory granules.**

<table>
<thead>
<tr>
<th><strong>Fungus, Grocott Methenamine Silver (GMS) Stain Kit</strong></th>
<th><strong>PART</strong></th>
<th><strong>VOLUME</strong></th>
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</thead>
<tbody>
<tr>
<td>9121A</td>
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<tr>
<td>9121B</td>
<td>500ml</td>
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</tbody>
</table>

**Stains a variety of fungal organisms including: Pneumocystis carinii, Aspergillus, Blastomyces, Candida and Histoplasma.**

**Microwave Modification Included**

Complimentary Control Slides Not Included
**Fungus, PAS/Light Green Stain Kit**

Stains fungus and glycoproteins. Polysaccharides present in fungal cell walls are oxidized by the periodic acid to aldehydes. The aldehydes then react with Schiff Reagent, McManus to yield magenta colored fungi.

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<th>PART</th>
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<td>9122A</td>
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**Gram, Brown-Brenn Modified Stain Kit**

Used for differential staining of gram-positive and gram-negative bacteria in tissue sections, cultures and smears.

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<tr>
<td>9123A</td>
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**Gram, Brown-Hopps Stain Kit**

Stains gram-negative and gram-positive bacteria and uses Gallego solution to differentiate the organisms.

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<th>PART</th>
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<tr>
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</table>

**Gram, Hucker-Twort Stain Kit**

Stains gram-positive and gram-negative bacteria without the use of picric acid. The Fast Green secondary counterstain provides the green background for clear detection of any red gram-negative bacteria present.

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<tr>
<td>9125A</td>
<td>250ml</td>
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</table>
### Helicobacter, Toluidine Blue / Alcian Yellow Stain Kit

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<tbody>
<tr>
<td>9130A</td>
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Used to screen and detect Helicobacter pylori in gastrointestinal biopsy specimens.

### Iron, Gomori Prussian Blue Stain Kit

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<tbody>
<tr>
<td>9136A</td>
<td>250ml</td>
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<tr>
<td>9136B</td>
<td>500ml</td>
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</table>

Used to detect loosely bound ferric iron in tissue sections. This histochemical reaction is sensitive enough to demonstrate minute amounts of iron deposits in blood cells, bone marrow and spleen.

### Luxol Fast Blue (LFB) / Cresyl Violet Stain Kit

<table>
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<tr>
<th>PART</th>
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<td>9155A</td>
<td>250ml</td>
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Stains myelin and Nissl substance in central nervous system tissues and in peripheral nerve. Microwave Modification Included

### Movat-Russell Modified Pentachrome Stain Kit

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<th>PART</th>
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<td>9150A</td>
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Stains five connective tissue elements; mucin, fibrin, elastic fibers, muscle, and collagen, along with nuclei.
STAIN KITS

Mucin, Mayer Mucicarmine Stain Kit
Stains acid epithelial mucin (sialomucin, sulfomucin) and is also useful for the demonstration of the encapsulated yeast Cryptococcus neoformans. Microwave Modification Included

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<th>PART</th>
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<tbody>
<tr>
<td>9151A</td>
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<tr>
<td>9151B</td>
<td>500ml</td>
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Periodic Acid Schiff (PAS) Stain Kit
Stains glycoproteins and aids in the differential diagnosis of tumors through the detection of acid/neutral epithelial mucins and/or glycogen. Digestion steps can be employed for further identification of mucosubstances. Also useful for staining basement membranes and fungal cell walls.

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<td>9162B</td>
<td>500ml</td>
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Phosphotungstic Acid Hematoxylin (PTAH) Stain Kit
Used for the demonstration of collagen, muscle striations and central nervous system (CNS) structures. The Zenker fixative used in this procedure is modified with zinc chloride and is mercury free. Microwave Modification Included

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Reticulum, Gordon & Sweets Stain Kit
A silver stain for demonstration of reticular fibers. Useful in the differential diagnosis of certain types of tumors.

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<tr>
<td>9168A</td>
<td>250ml</td>
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</table>
**Steiner-Chapman Modified Silver Stain Kit**

Stains spirochetes, Helicobacter pylori, Legionella pneumophila, other nonfilamentous bacteria and fungus. Eliminates the use of Uranyl Nitrate.

Microwave Modification Included

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<tr>
<td>9172B</td>
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**Steiner-Steiner Modified Silver Stain Kit**

A silver stain for identifying spirochetes, Helicobacter pylori, Legionella pneumophila, other nonfilamentous bacteria and fungus.

Microwave Modification Included

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**Trichrome, Gomori One-Step, Aniline Blue Stain Kit**

Uses a one-step solution combining a plasma stain and a connective tissue stain to differentially demonstrate collagen and muscle fibers.

Microwave Modification Included

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<tr>
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<tr>
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<td>9176A</td>
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**Trichrome, Gomori One-Step, Fast Green Stain Kit**

Uses a one-step solution combining a plasma stain and a connective tissue stain to differentially demonstrate collagen and muscle fibers.

Microwave Modification Included

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<tr>
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### Trichrome, Masson, Aniline Blue Stain Kit

Used to differentially demonstrate connective tissue elements, collagen and muscle fibers.
Microwave Modification Included

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### Trichrome, Masson, Fast Green Stain Kit

Used to differentially demonstrate connective tissue elements, collagen and muscle fibers.
Microwave Modification Included

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### Trichrome, McLetchie, Aniline Blue Stain Kit

Stains collagen and muscle fibers, works well on bone marrow and renal biopsies and provides time efficient results.
This modified procedure does not use a Bouin Fluid mordant or a hematoxylin nuclear stain.

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COMPONENT LIST

**AFB, BASIC FUCHSIN, ELLIS & ZABROWARNY STAIN KIT**
- Basic Fuchsin Stain, 1% Alcoholic
- Acid Alcohol 3%
- Methylene Blue Stain 0.25%, Aqueous

**AFB, FITE STAIN KIT**
- Xylene/Peanut Oil, 2:1
- Carbol Fuchsin Stain, Ziehl-Neelsen
- Sulfuric Acid 1%, Aqueous
- Methylene Blue Stain 0.5%, Aqueous

**AFB, ZIEHL-NEELSEN STAIN KIT**
- Carbol Fuchsin Stain, Ziehl-Neelsen
- Acid Alcohol 1%
- Light Green SF Yellowish Stain 0.1%, Aqueous

**ALCIAN BLUE 1%, PH 2.5 STAIN KIT**
- Acetic Acid 3%, Aqueous
- Alcian Blue Stain 1%, pH 2.5 Aqueous
- Nuclear Fast Red Stain, Kernechtrot

**ALCIAN BLUE/PAS STAIN KIT**
- Acetic Acid 3%, Aqueous
- Alcian Blue Stain 1%, pH 2.5 Aqueous
- Periodic Acid 0.5%, Aqueous
- Schiff Reagent, McManus
- Hematoxylin Stain, Mayer Modified

**AMYLOID, BENNHOLD CONGO RED STAIN KIT**
- Congo Red Stain 1%, Aqueous (Set Part A)
- Alkaline Alcohol (Set Part B)
- Hematoxylin Stain, Mayer Modified

**AMYLOID, PUCHTLER CONGO RED STAIN KIT**
- Hematoxylin Stain, Harris Modified
- Sodium Hydroxide 1%, Aqueous (Set Part A)
- Congo Red Stain, Alcoholic (Set Part B)

**BASEMENT MEMBRANE, GOMORI STAIN KIT**
- Methylene 3%, Aqueous (Set Part A)
- Silver Nitrate 5%, Aqueous (Set Part B)
- Sodium Borate 5%, Aqueous (Set Part C)
- Periodic Acid 1%, Aqueous
- Gold Chloride 0.25%, Aqueous
- Sodium Thiosulfate 2.5%, Aqueous
- Light Green SF Yellowish Stain 0.1%, Aqueous

**BIELSCHOWSKY, LESTER-KING MODIFIED STAIN KIT**
- Silver Nitrate 20%, Aqueous
- Ammonium Hydroxide 28-30%, ACS
- Developer
- Sodium Thiosulfate 5%, Aqueous

**COLLOIDAL IRON, MÜLLER-MOWRY STAIN KIT**
- Acetic Acid 12%, Aqueous
- Colloidal Iron Stock
- Sodium Borate 0.5%, Aqueous
- Potassium Ferrocyanide 2%, Aqueous
- Hydrochloric Acid 2%, Aqueous
- Van Gieson Stain

**COPPER, RHODANINE STAIN KIT**
- Rhodamine Stock Stain 0.2%, Alcoholic
- Hematoxylin Stain, Mayer Modified
- Sodium Borate 0.5%, Aqueous

**DIFFERENTIAL STAIN KIT**
- Xanthenne Stain
- Thiazine Stain
- Fixative

**ELASTIC, VERHOEFF STAIN KIT**
- Hematoxylin 5%, Alcoholic
- Ferric Chloride 10%, Aqueous
- Iodine, Weigert & Lugol, Aqueous
- Sodium Thiosulfate 5%, Aqueous
- Van Gieson Stain

**FAT, OIL RED O, PROPYLENE GLYCOL STAIN KIT**
- Propylene Glycol 100%, ACS
- Oil Red O Stain, Propylene Glycol
- Propylene Glycol 85%, Aqueous
- Hematoxylin Stain, Mayer Modified

**FONTANA MASSON STAIN KIT**
- Silver Nitrate 10%, Aqueous
- Ammonium Hydroxide 28-30%, ACS
- Gold Chloride 0.2%, Aqueous
- Sodium Thiosulfate 5%, Aqueous
- Nuclear Fast Red Stain, Kernechtrot
COMPONENT LIST

FUNGUS, GROCOTT METHENAMINE SILVER (GMS) STAIN KIT
Chromic Acid 5%, Aqueous
Sodium Bisulfite 1%, Aqueous
Silver Nitrate (Set Part A)
Methenamine Borate (Set Part B)
Gold Chloride 0.1%, Aqueous
Sodium Thiosulfate 2%, Aqueous
Light Green SF Yellowish Stain 0.02%, Aqueous

FUNGUS, PAS/LIGHT GREEN STAIN KIT
Periodic Acid 0.5%, Aqueous
Schiff Reagent, McManus
Light Green SF Yellowish Stain 0.1%, Aqueous

GRAM, BROWN-BRENN MODIFIED STAIN KIT
Crystal Violet-Oxalate Stain, Alcoholic
Iodine, Gram, Aqueous
Acetone-Alcohol 1:1
Basic Fuchsin Stain 0.25%, Aqueous
Picric Acid-Acetone 0.1%
Acetone-Xylene 1:1

GRAM, BROWN-HOPPS STAIN KIT
Crystal Violet Stain 1%, Aqueous, Brown-Hopps
Iodine, Gram, Aqueous
Basic Fuchsin Stain 0.25%, Aqueous
Gallego Solution
Picric Acid-Acetone 0.05%
Acetone-Xylene 1:1

GRAM, HUCKER-TWORT STAIN KIT
Crystal Violet-Oxalate Stain, Alcoholic
Iodine, Weigert & Lugol, Aqueous
Neutral Red Stain 1%, Alcoholic (Set Part A)
Fast Green Stain 1%, Alcoholic (Set Part B)

HEMOCOBACTER, TOLUIDINE BLUE/ALCIAN YELLOW STAIN KIT
Periodic Acid 1%, Aqueous
Sodium Metabisulfite 5%, Aqueous
Alcian Yellow Stain 1%, Alcoholic
Toluidine Blue Stock Stain 1%, Aqueous
Sodium Hydroxide 3%, Aqueous

IRON, GOMORI PRUSSIAN BLUE STAIN KIT
Hydrochloric Acid 20%, Aqueous
Potassium Ferrocyanide 10%, Aqueous
Nuclear Fast Red Stain, Kemechtrot

LUXOL FAST BLUE (LFB)/CRESYL VIOLET STAIN KIT
Luxol Fast Blue Stain 0.1%, Alcoholic
Cresyl Violet Stain, Aqueous
Acetic Acid 10%, Aqueous

MOVAT-RUSSELL MODIFIED PENTACHROME STAIN KIT
Alcian Blue Stain 1%, Aqueous
Ammonium Hydroxide 28-30%, ACS
Hematoxylin 10%, Alcoholic
Ferric Chloride 10%, Aqueous
Iodine, Verhoeff, Aqueous
Ferric Chloride 2%, Aqueous
Sodium Thiosulfate 5%, Aqueous
Crocine Scarlet 7B Stain, Aqueous
Acid Fuchsin Stain, Aqueous
Phosphotungstic Acid 5%, Aqueous
Orange G Stain 1%, Aqueous
Acetic Acid 0.5%, Aqueous

MUCIN, MAYER MUCICARMINE STAIN KIT
Ferric Chloride, Acidified (Set Part A)
Hematoxylin 1%, Alcoholic (Set Part B)
Mucicarmine Stock Stain, Mayer
Metanil Yellow Stain, Aqueous

PERIODIC ACID SCHIFF (PAS) STAIN KIT
Periodic Acid 0.5%, Aqueous
Schiff Reagent, McManus
Hematoxylin Stain, Harris
Acid Alcohol 1%
Lithium Carbonate, Saturated Aqueous

PHOSPHOTUNGSTIC ACID HEMATOXYLIN (PTAH) STAIN KIT
Zenker Fixative, Modified, Zinc Chloride
Acetic Acid, Glacial, ACS
Potassium Permanganate 0.25%, Aqueous
Oxalic Acid 5%, Aqueous
Phosphotungstic Acid Hematoxylin (PTAH) Stain, Modified Mallory
**COMPONENT LIST**

**RETICULUM, GORDON & SWEETS STAIN KIT**
Potassium Permanganate 1%, Aqueous
Oxalic Acid 1%, Aqueous
Ferric Ammonium Sulfate 2.5%, Aqueous
Silver Nitrate 10%, Aqueous
Ammonium Hydroxide 28-30%, ACS
Sodium Hydroxide 3%, Aqueous
Formalin 10%, Aqueous
Gold Chloride 0.2%, Aqueous
Sodium Thiosulfate 5%, Aqueous
Nuclear Fast Red Stain, Kernechtrot

**STEINER-CHAPMAN MODIFIED SILVER STAIN KIT**
Zinc Formalin Sensitizer
Silver Nitrate 1%, Aqueous
Gum Mastic 2.5%, Alcoholic
Hydroquinone, Powder

**STEINER-STEINER MODIFIED SILVER STAIN KIT**
Uranil Nitrate 1%, Aqueous
Silver Nitrate 1%, Aqueous
Gum Mastic 2.5%, Alcoholic
Hydroquinone, Powder

**TRICROME, GOMORI ONE-STEP, ANILINE BLUE STAIN KIT**
Bouin Fluid
Ferric Chloride, Acidified (Set Part A)
Hematoxylin 1%, Alcoholic (Set Part B)
Trichrome Stain, Gomori One-Step, Aniline Blue
Acetic Acid 0.5%, Aqueous

**TRICROME, GOMORI ONE-STEP, FAST GREEN STAIN KIT**
Bouin Fluid
Ferric Chloride, Acidified (Set Part A)
Hematoxylin 1%, Alcoholic (Set Part B)
Trichrome Stain, Gomori One-Step, Fast Green
Acetic Acid 0.5%, Aqueous

**TRICROME, MASSON, ANILINE BLUE STAIN KIT**
Bouin Fluid
Ferric Chloride, Acidified (Set Part A)
Hematoxylin 1%, Alcoholic (Set Part B)
Biebrich Scarlet-Acid Fuchsin Stain, Aqueous
Phosphomolybdic-Phosphotungstic Acid, Aqueous
Aniline Blue Stain, Aqueous
Acetic Acid 0.5%, Aqueous

**TRICROME, MASSON, FAST GREEN STAIN KIT**
Bouin Fluid
Ferric Chloride, Acidified (Set Part A)
Hematoxylin 1%, Alcoholic (Set Part B)
Biebrich Scarlet-Acid Fuchsin Stain, Aqueous
Phosphotungstic Acid 5%, Aqueous
Fast Green Stain 2.5%, Aqueous
Acetic Acid 0.5%, Aqueous

**TRICROME, MCLETTIE, ANILINE BLUE STAIN KIT**
Biebrich Scarlet-Acid Fuchsin Stain, Aqueous
Iodine, Weigert & Lugol, Aqueous
Phosphotungstic Acid 2%, Alcoholic
Aniline Blue Stain, Aqueous

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