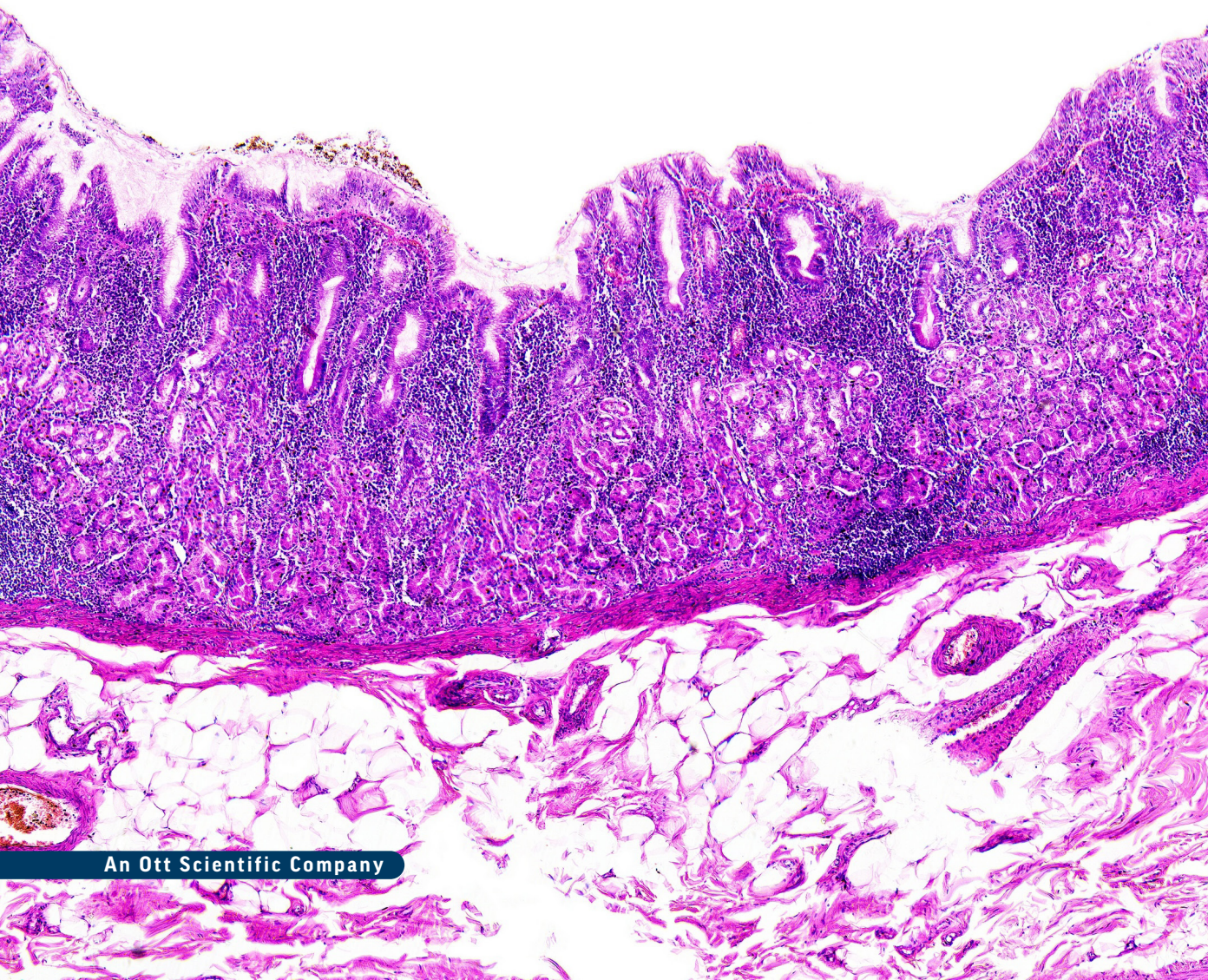




Ethos
Biosciences

HISTOLOGY CATALOG



An Ott Scientific Company

LOCATIONS

North America

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Founded through the acquisition of the Exocell[®] diagnostics arm of Glycadia, Ethos Biosciences was established to continue the design, development and manufacture of high-quality, easy-to-use diagnostic test kits and reagents. In 2021, we expanded our mission and footprint by bringing legacy American Bionostica (LFA CDMO) and Astral Diagnostics (laboratory dyes and stains) businesses under the Ethos Bio umbrella.

Together with Bangs Laboratories and Polysciences, Ethos Biosciences is part of the Ott Scientific family of companies.

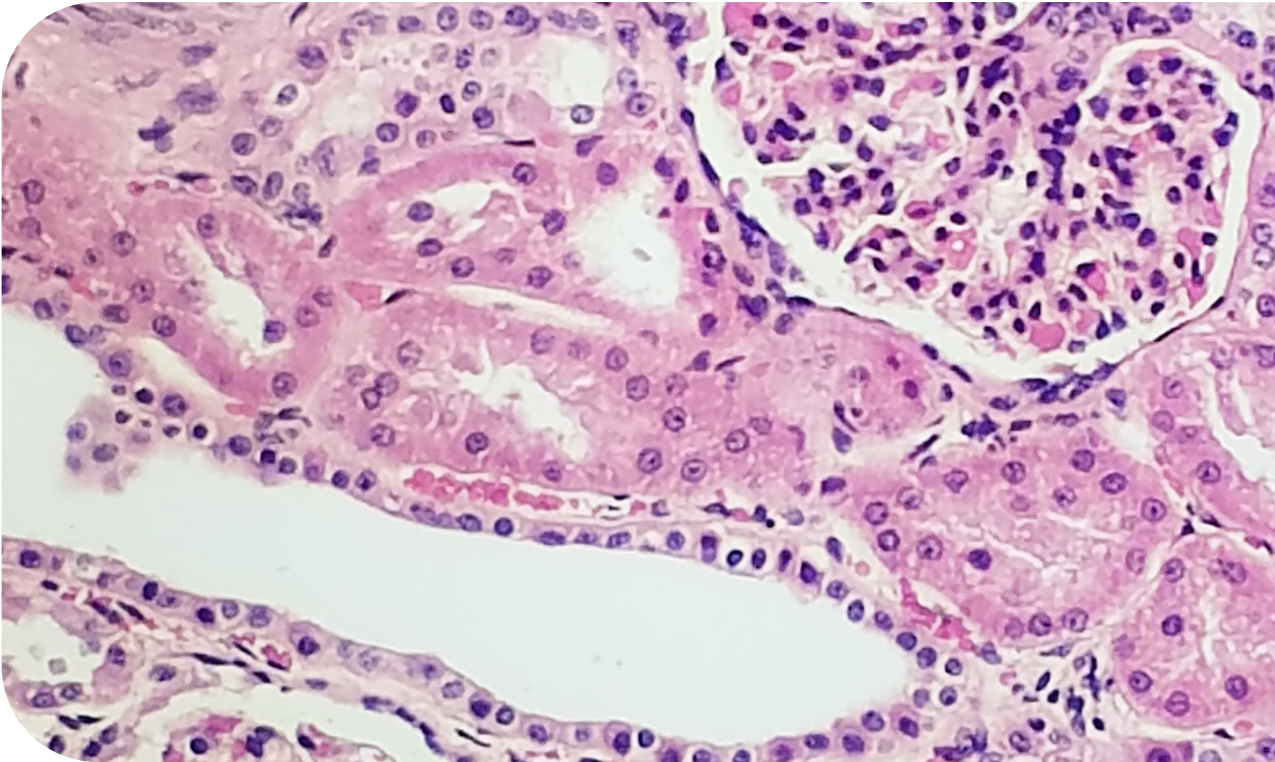


Ott Scientific
CATALYZING INNOVATION

HISTOLOGY

Ethos Biosciences manufactures the Astral Diagnostics brand of diagnostic stains and laboratory reagents. For more than 20 years, our products have been used in academic, clinical and veterinary medical laboratories. We work with retail, bulk, private label and OEM customers, and our Custom & Contract services span formulation, packaging, kitting and fulfillment.

See our full list of product offerings at EthosBiosciences.com, or contact us at info@ethosbioscience.com to find how we can be of help in solving your latest challenge.



SPECIMEN PREPARATION & PROCESSING

Mohs Lab Staining Kit

Tissue staining is the cornerstone of Mohs Micrographic Surgery (MMS). Try our Mohs Lab Staining Kit, which includes high performance Astral Diagnostics' stains and reagents that will consistently yield slides with excellent morphology and differentiation of target cellular components. The kit includes marking dyes; freezing medium; bleaching reagents; both Hematoxylin and Eosin (H&E) and Toluidine Blue (T-blue) stains; and mounting medium. The Kit will take the specimen from dye marking, cryo-embedding, melanin bleaching, staining and mounting medium to a finished slide that can be viewed under the microscope within minutes.

Mohs Lab Staining Kit
7102 (1 Kit)

Tissue Marking Dyes

Our Marking Dyes for Tissue are designed to perfect orientation of excised surgical specimens, which is highly beneficial to surgeons and pathologists testing for skin cancer. This method of marking multiple margins of specimens was originally documented by Dr. Frederic Mohs. Tissue marking dyes also provide a mode of identification, enabling more than one specimen to be processed in a single cassette, saving the lab technologist both time and materials.

Tissue Marking Dye
7562-02 (2 oz), Ultra Black
7563-02 (2 oz), Royal Blue
7564-02 (2 oz), Ruby Red
7565-02 (2 oz), Emerald Green
7566-02 (2 oz), Golden Yellow

Tissue Marking Dye Sets

Our Marking Dyes for Tissue are designed to perfect orientation of excised surgical specimens, which is highly beneficial to surgeons and pathologists testing for skin cancer. This method of marking multiple margins of specimens was originally documented by Dr. Frederic Mohs. Tissue marking dyes also provide a mode of identification, enabling more than one specimen to be processed in a single cassette, saving the lab technologist both time and materials.

Tissue Marking Dye Set
7570-02 (5 x 2 oz), Ultra Black
7571-02 (5 x 2 oz), Royal Blue
7572-02 (5 x 2 oz), Emerald Green
7569-02 (5 x 2 oz), 5 Color Set

Transport Media

Michel's Transport Medium

A tissue transport medium used for preservation of biopsy specimens prior to further processing.

Michel's Transport Medium
7850-G (1 gal)

Fixation

B-5 Substitute

Mercury-free fixative used for lymphoid and hematopoietic tissue.

B-5 Substitute
3348 (32 oz)

Bouins Fixative

Picric acid, formalin and acetic acid fixative. Bouins fixative is excellent for use in preserving soft and delicate tissue structures.

Bouins Fixative
3350-G (1 gal)

Formalin 10%, Buffered

Formalin 10% buffered is the most widely used fixative for routine processing of tissue in histology laboratories.

Formalin 10%, Buffered
3320-G (1 gal)
3320-5G (5 gal)

Formalin 10%, Carson-Millonig

Formalin 10% Carson-Millonig can be used as a dual purpose fixative, suitable for electron and light microscopy.

Formalin 10%, Carson-Millonig
3331-G (1 gal)

Formalin 20%, Buffered

Formalin 20% is a general-purpose fixative used for routine processing of tissue for light microscopy.

Formalin 20%, Buffered
3295-5G (5 gal)

Formalin 20%, Non-Buffered

Formalin 20% is a general-purpose fixative used for routine processing of tissue for light microscopy.

Formalin 20%, Non-Buffered
3296-5G (5 gal)

Formalin Concentrate

Formalin Concentrate is a general-purpose fixative used for routine processing of tissue for light microscopy.

Formalin Concentrate
3322-G (1 gal)

Formaldehyde 37%

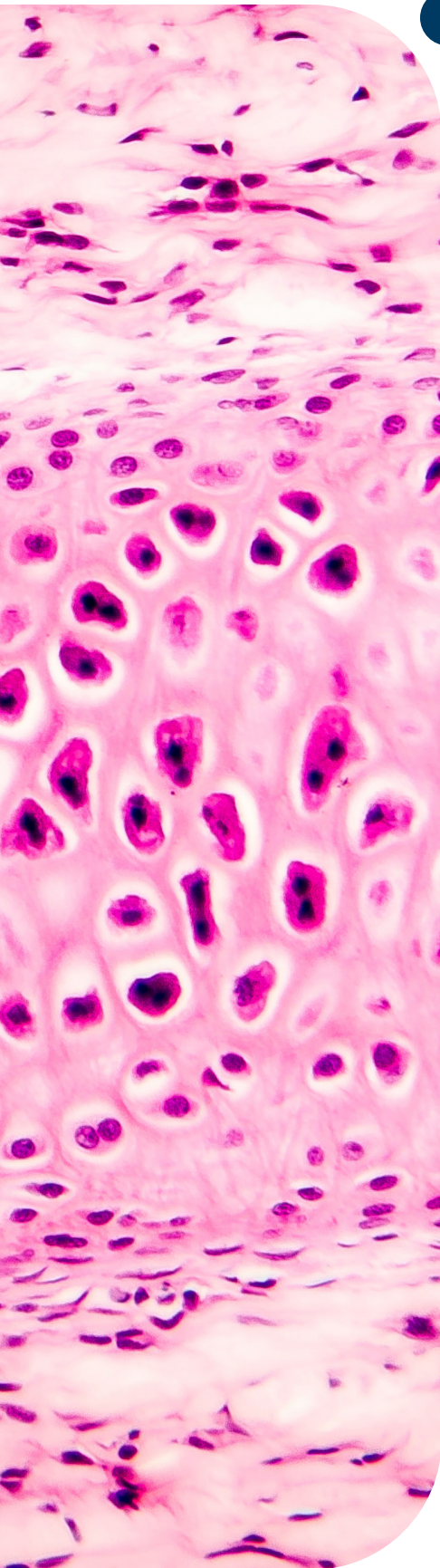
Suitable for both electron and light microscopy. Easily penetrates large blocks of tissue. When used in combination with glutaraldehyde, it fixes delicate tissues such as brain in vascular perfusion. Avoids the problem of having to depolymerize paraformaldehyde.

Formaldehyde 37%
3323-32 (32 oz)
3323-G (1 gal)

Hematoxylin Mayer's

General-purpose nuclear stain. Useful as a counterstain for immunohistochemistry.

Hematoxylin Mayer's
7015-16 (16 oz)
7015-G (1 gal)
7015-5G (5 gal)



Dehydration

Reagent Alcohol

A blend of ethanol containing 5% isopropanol and 5% methanol. For various applications primarily in Histo/Cyto specimen processing.

Reagent Alcohol
3335-G (1 gal)
3335-5G (5 gal)

This product may have a hazardous shipping charge.

Ethanol Solution, 50%

Ethanol Solution 50% is useful as a dehydrating reagent.

Ethanol Solution, 50%
3336-G (1 gal)

This product may have a hazardous shipping charge.

Ethanol Solution, 70%

Ethanol Solution 70% is useful as a dehydrating reagent.

Ethanol Solution, 70%
3337-G (1 gal)

This product may have a hazardous shipping charge.

Ethanol Solution, 80%

Ethanol Solution 80% is useful as a dehydrating reagent.

Ethanol Solution, 80%
3338-G (1 gal)

This product may have a hazardous shipping charge.

Ethanol Solution, 95%

Ethanol Solution 95% is useful as a dehydrating reagent.

Ethanol Solution, 95%
3340-G (1 gal)

This product may have a hazardous shipping charge.

Ethanol Solution, 100%

Ethanol Solution 100% is useful as a dehydrating reagent.

Ethanol Solution, 100%
3341-G (1 gal)
3341-5G (5 gal)

This product may have a hazardous shipping charge.

Clearing

Xylene

Xylene is a routine clearing agent. Useful for tissue processing and staining procedures.

Xylene
3346-G (1 gal)

Clear-Sub (Xylene Substitute)

Clear-Sub (Xylene Substitute) is an aliphatic hydrocarbon mixture that can substitute for some applications as xylene. It can be used for processing, deparaffinization and clearing after staining. No change in incubation times are necessary when using Clear-Sub (Xylene Substitute) to replace xylene.

Clear-Sub has less odor and lower evaporation rate than xylene. Clear-Sub is more sensitive against water in solvents (turbidity can occur), therefore, it is essential to avoid technical grades of solvents.

Clear-Sub (Xylene Substitute)
3344-G (1 gal)

Decalcifiers

Decalcifier, Formic Acid

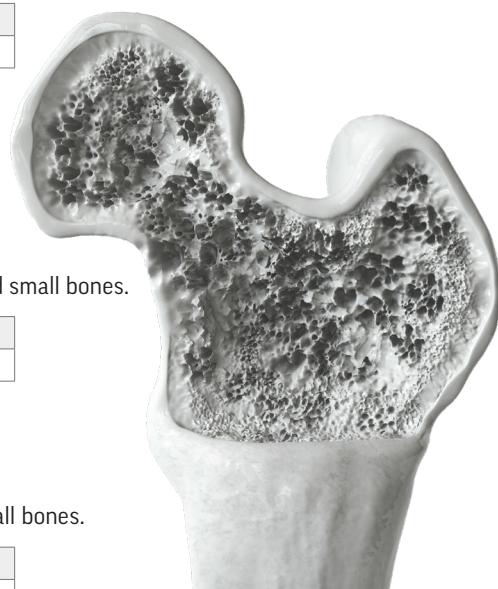
Mild decalcifying solution. Ideal for removing calcium from bone marrow and small bones.

Decalcifier, Formic Acid
3360 (1 gal)

Decalcifier, Hydrochloric Acid

Decalcifying solution. Ideal for removing calcium from bone marrow and small bones.

Decalcifier, Hydrochloric Acid
3363 (1 gal)



Freezing & Embedding

SubZero-Matrix Tissue Freezing Medium

Our SubZero-Matrix Tissue Freezing Medium freezes quickly without crystallization, specific formula reduces curling, allowing easier pickups of flat serial sections. Convenient flip cap for improved ease of use.

SubZero-Matrix Tissue Freezing Medium
7568 (1 case)

Case Contains: 6 x 4oz

Polyfin® Paraffin

This is a mixture of fine paraffin waxes and copolymeralloys in convenient pellets. Polyfin produces ultra-thin compression-free ribbons. It functions flawlessly in pressure/vacuum fluid flow processors and tissue embedding centers.

Polyfin® Paraffin
7573 (1 case)

Case Contains: 8 x 1Kg

Bleaching

Melanin Bleach Kit

Our melanin bleaching kit saves time by removing melanin pigment prior to staining. Reveal cellular morphology obscured by melanin pigment. This product is useful for immunohistochemistry and special staining.

Melanin Bleach Kit
7567 (2 x 8oz)

STAINING

Eosin Solutions

Eosin Y, 1% Alcoholic

Eosin Y 1% Alcoholic is a cytoplasmic stain that when used in the hematoxylin and eosin staining procedure provides excellent definition of cell components in shades of red and pink. It is an excellent cytoplasmic stain which provides great contrast to the purple nuclei stained with hematoxylin.

Eosin Y, 1% Alcoholic
7006 (1 gal)

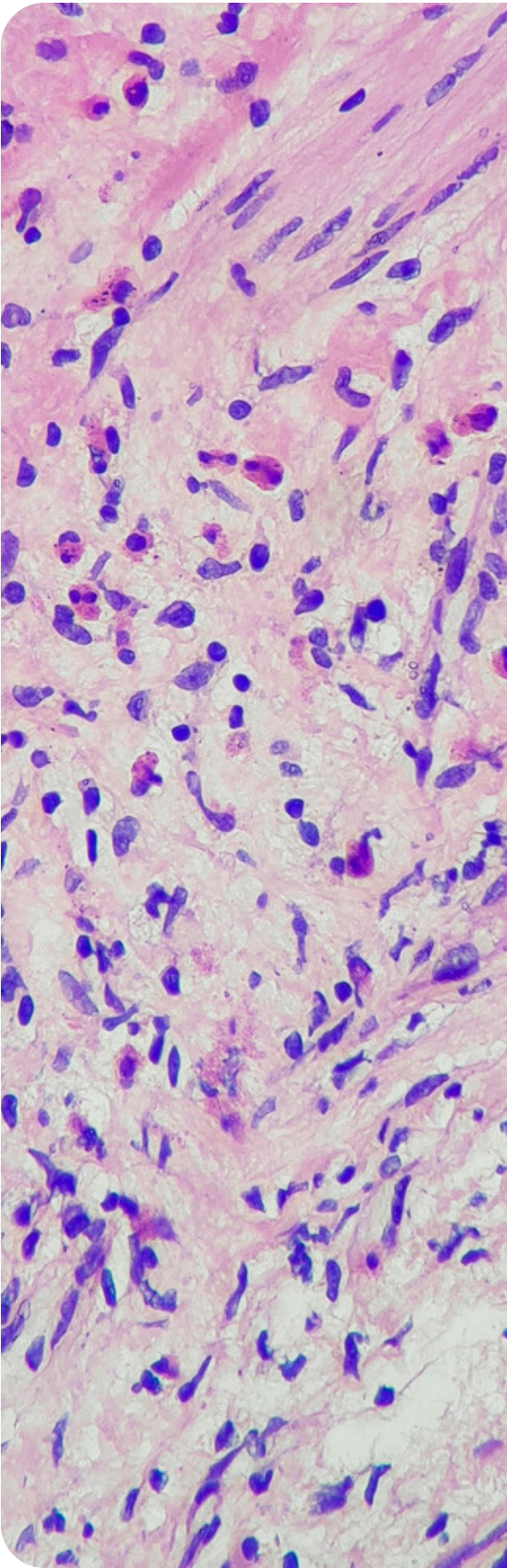
This product may have a hazardous shipping charge.

Eosin Y, Intensified

Intensified Eosin and Eosin-Phloxine have been formulated to provide the user with increased definition of the cytoplasmic components. These innovative modified eosin counterstains are substituted for Eosin Y 1% Alcoholic in the staining procedure. Timing may be varied to achieve the desired staining intensity.

Eosin Y, Intensified
7007 (1 gal)

This product may have a hazardous shipping charge.



Hematoxylin Harris Hg Free

Hematoxylin Harris Hg Free is a general-purpose nuclear stain, regressive type. Used with hematoxylin and eosin staining.

Hematoxylin Harris Hg Free
7000-16 (16 oz)
7000-G (1 gal)

Hematoxylin Harris, Hg Free, Acidified

General-purpose nuclear stain, regressive type. Used with hematoxylin and eosin staining.

Hematoxylin Harris, Hg Free, Acidified
7002-16 (16 oz)
7002-G (1 gal)
7002-5G (5 gal)

Hematoxylin Gill 2X

General-purpose nuclear stain, progressive type. Used with hematoxylin and eosin staining. Gill 2X and Gill 3X should be used when a stronger or darker nuclear stain is required for histology.

Hematoxylin Gill 2X
7013-16 (16 oz)
7013-G (1 gal)

Hematoxylin Gill 3X

General-purpose nuclear stain, progressive type. Used with hematoxylin and eosin staining. Gill 2X and Gill 3X should be used when a stronger or darker nuclear stain is required for histology.

Hematoxylin Gill 3X
7014-16 (16 oz)
7014-G (1 gal)
7014-5G (5 gal)

Hematoxylin Mayer's, Classical

General-purpose nuclear stain. Useful as a counterstain for immunohistochemistry.

Hematoxylin Mayer's, Classical
7021-16 (16 oz)
7021-G (1 gal)
7021-5G (5 gal)

Hematoxylin Powder, Certified

Certified hematoxylin powder used to produce hematoxylin stain. Commonly used for the H&E staining procedure.

Hematoxylin Powder, Certified
7575-25 (25g)
7575-100 (100g)

Specialty Stains

Alcian Blue

Alcian Blue is primarily used for demonstrating acid mucopolysaccharides. It is also used in electrophoresis for detecting glycoproteins. pH 2.5.

Alcian Blue
7022-16 (16 oz)
7022-32 (32 oz)

Eosin - Phloxine

Intensified Eosin and Eosin-Phloxine have been formulated to provide the user with increased definition of the cytoplasmic components. These innovative modified eosin counterstains are substituted for Eosin Y 1% Alcoholic in the staining procedure. Timing may be varied to achieve the desired staining intensity.

Eosin - Phloxine
7009 (1 gal)

This product may have a hazardous shipping charge.

Eosin Nigrosin Semen Stain

Eosin Nigrosin is a staining technique that assesses the vitality of a sperm sample. For Professional Use Only.

Eosin Nigrosin Semen Stain
5592 (16 oz)

For Professional Use Only.

Nuclear Fast Red

Nuclear fast red staining is a simple method of nuclear chromatin staining and is mainly used for high-contrast counterstaining for histological applications.

Nuclear Fast Red
3374-04 (4 oz)
3374-16 (16 oz)

Gomori Trichrome Stain

It is a histological staining method that uses two or more acid dyes in conjunction with a polyacid. One step stain (Gomori method) is used to distinguish between collagen fibers and smooth muscle in tissue sections. Bouin's fixative is generally used as a mordant with this process. The Gomori Trichrome method provided a shorter staining process to Masson's Trichrome method, yielding similar results. The Gomori Trichrome demonstrates the collagen fibers in a brilliant green shade. This color option is unique to the Gomori Trichrome method.

Gomori Trichrome Stain
6900-16 (16 oz)

Verhoeff Van Gieson Elastin Stain Kit

The Verhoeff Van Gieson Elastin stain is useful in demonstrating atrophy of elastic tissue in cases of emphysema, thinning and loss of elastic fibers in arteriosclerosis and other vascular diseases. 500 ml kit stains up to 120 slides.

Kit contains:

- Solution A - 5% Alcoholic Hematoxylin,
- Solution B - 10% Aqueous Ferric Chloride,
- Solution C - Iodine Solution,
- Solution D - 5% Sodium Thiosulphate,
- Solution E - Counterstain I,
- Solution F - Counterstain II.

Verhoeff Van Gieson Elastin Stain Kit
25089 (1 kit)

PAS

Periodic Acid 0.5%

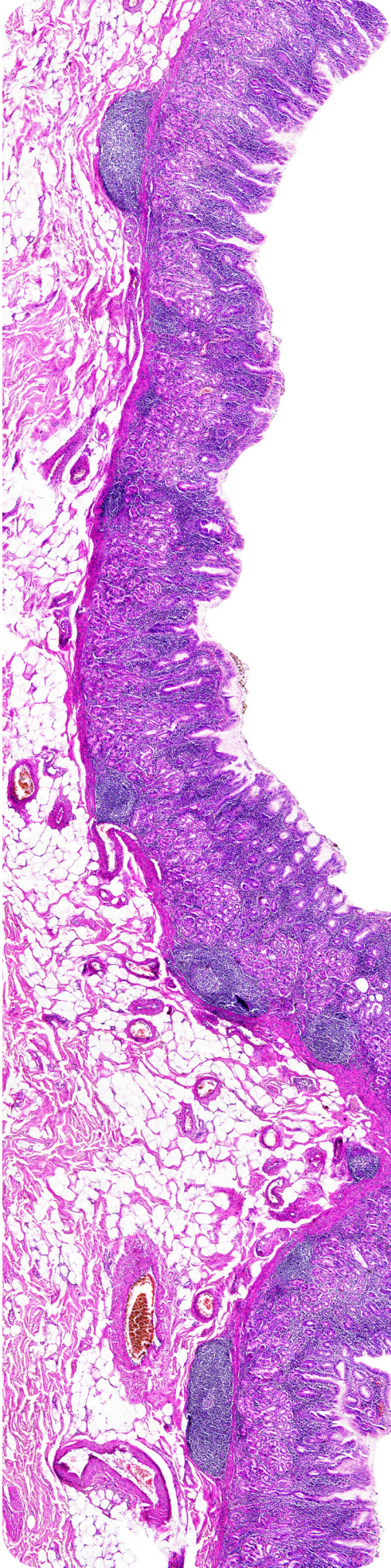
Generally used in Periodic Acid Schiff (PAS) staining, prior to staining with Schiff's Reagent.

Periodic Acid 0.5%
3376-16 (16 oz)

Periodic Acid 1%

Generally used in Periodic Acid Schiff (PAS) staining, prior to staining with Schiff's Reagent.

Periodic Acid 1.0%
3377-16 (16 oz)



Schiff's Reagent

Schiff's Reagent is used in the Periodic Acid Staining Procedure. Intended for use with blood, bone marrow, tissue touch preparations or routine tissue sections.

Schiff's Reagent
3378-G (1 gal)

Staining Reagents, Bluing

Bluing Reagent

Lithium carbonate solution used to provide crisp nuclear detail to cells.

Bluing Reagent
3356-G (1 gal)

This product may have a hazardous shipping charge.

AQUAbluing Reagent

Bluing reagent at pH 8.0 used to provide crisp nuclear detail.

AQUAbluing Reagent
3357 (1 gal)

Staining Reagents, Clarifying

Acetic Acid 3%, 5%

Acetic Acid is a general reagent useful in many histological staining procedures. Available in various concentrations (3%, 5%) for your research needs.

Acetic Acid 3%
3301 (16 oz)
3301-G (1 gal)
Acetic Acid 5%
3303-16 (16 oz)

CLEARview™, Histological Clarifier

Differentiation solution for removing excess hematoxylin from tissue to accentuate cell structure and clarity. Differentiation in less than 60 seconds.

CLEARview™, Histological Clarifier
7023-G (1 gal)

Acid Alcohol Solution

Differentiation solution for removing excess hematoxylin from tissue to accentuate cell structure and clarity. Differentiation in less than 60 seconds.

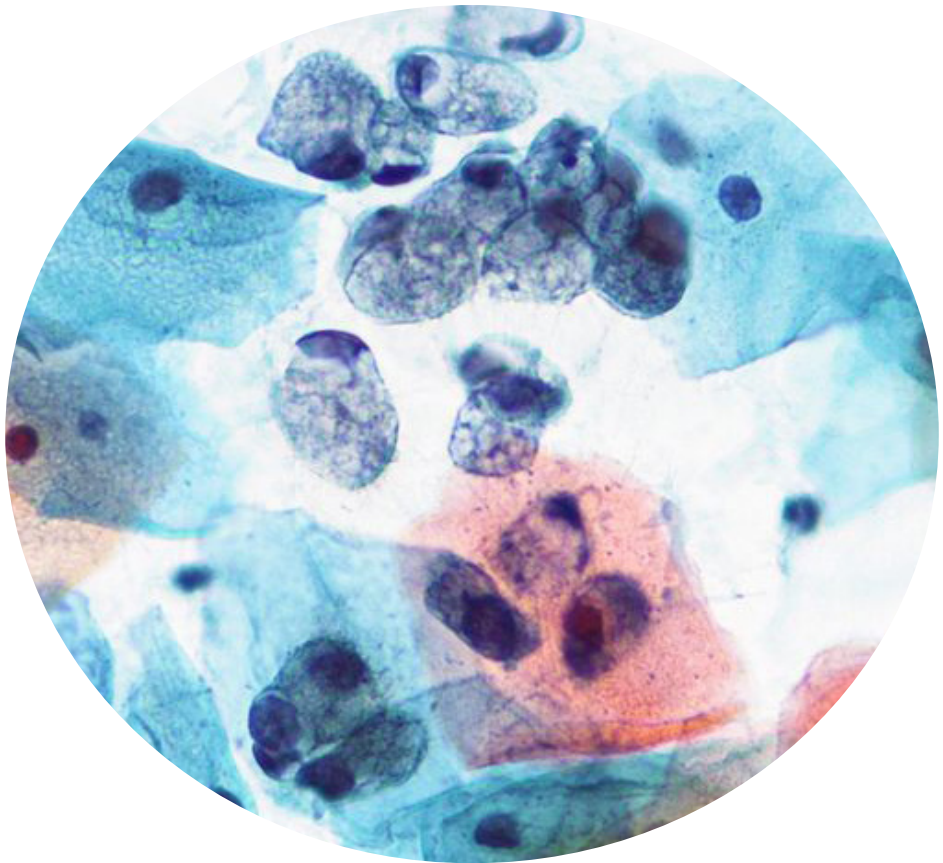
Acid Alcohol Solution
7561-G (0.5% Concentration) (1 gal)
7560-G (1.0% Concentration) (1 gal)

Mounting Mediums

Acrylic Mounting Medium

Histo/Cryo Mounting Medium in a toluene matrix using an acrylic resin for coverslipping.

Acrylic Mounting Medium
3349-04 (4 oz)
3349-16 (16 oz)



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Trademarks

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Ethos Biosciences®
CLEARview™

Polysciences, Inc.
Polyfin®

About Us

Ethos Biosciences manufactures the Astral Diagnostics brand of diagnostic stains and laboratory reagents. For more than 20 years, our products have been used in academic, clinical and veterinary medical laboratories. We work with retail, bulk, private label and OEM customers, and our Custom & Contract services span formulation, packaging/kitting and fulfillment.

Our Commitment to Service

We are uniquely positioned to offer highest-level technical support and troubleshooting assistance. As a manufacturer, we have a deep understanding of dye and stain formulations; this also enables us to achieve highest quality standards for our products. Ethos' Astral Diagnostics products are supported by fully-equipped, on-site laboratories that are staffed with experienced technicians. We understand the laboratory ecosystem, and are able to provide truly authentic support to our customers. We're happy to assist with product selection or protocol review, and will take our troubleshooting to the bench if a deeper investigation is required.

Our Commitment to Quality

At Ethos Biosciences, quality extends far beyond basic dye formulation and concentration checks. Our fully-integrated program ensures control from start to finish—it begins with raw materials, and encompasses dye and reagent formulation, manufacturing and quality control. Product QC is comprehensive, with performance testing that features actual specimens to ensure that dyes meet expected intensity and cellular component differentiation criteria. For Ethos, Quality isn't simply a claim—it's the cornerstone of our philosophy and our commitment to you.

Our Commitment to You

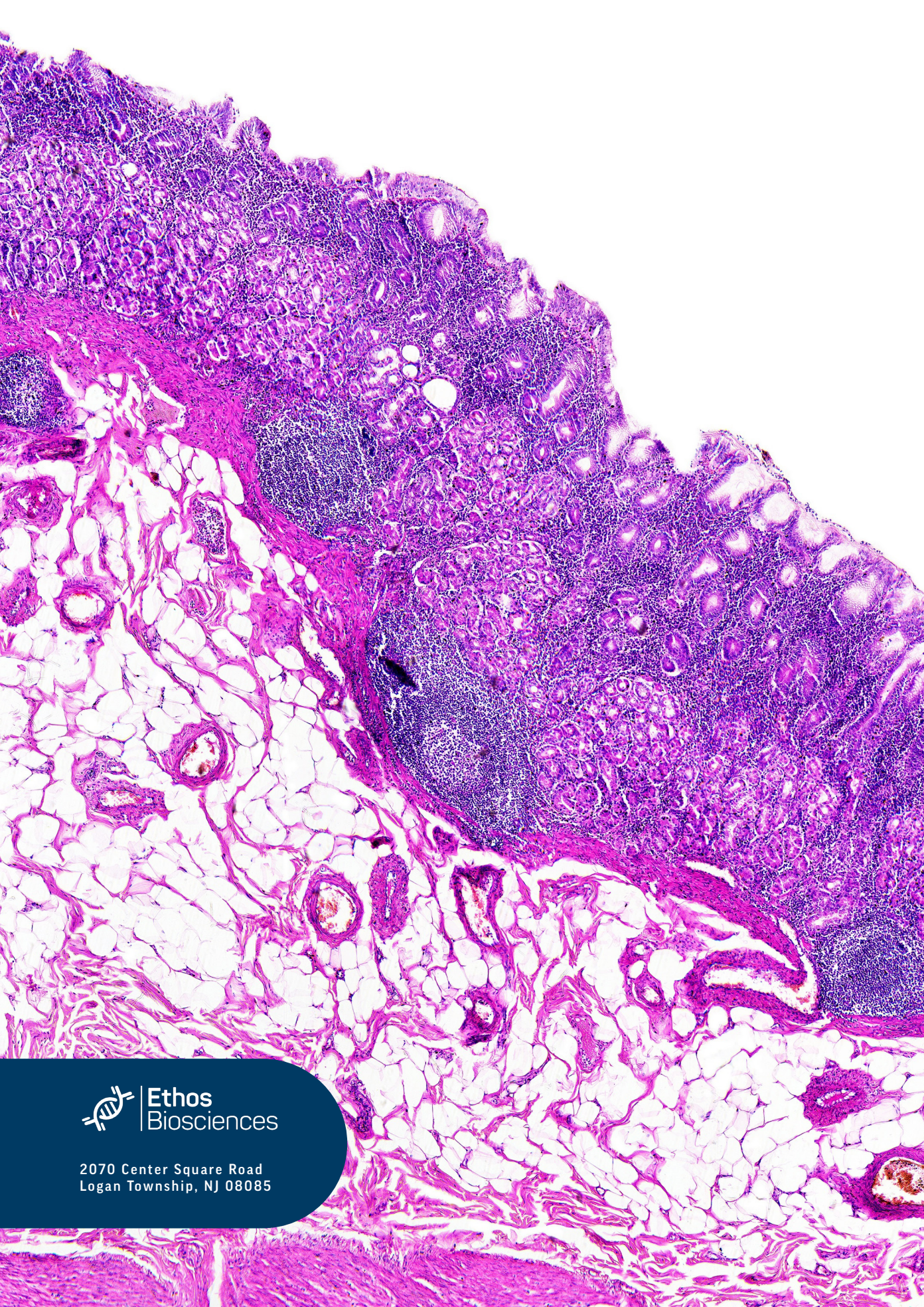
At the end of the day, we do all of these things for one purpose: to serve our valued customers. We invite you to contact us with any questions, or to browse the Resources section of the website for protocols and other support documents. Our application experts are also available to assist with technical questions info@ethosbiosciences.com or 800-441-0366.

We look forward to working with you—we're happy to help!



Stay Connected, Follow Us!





Ethos
Biosciences

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