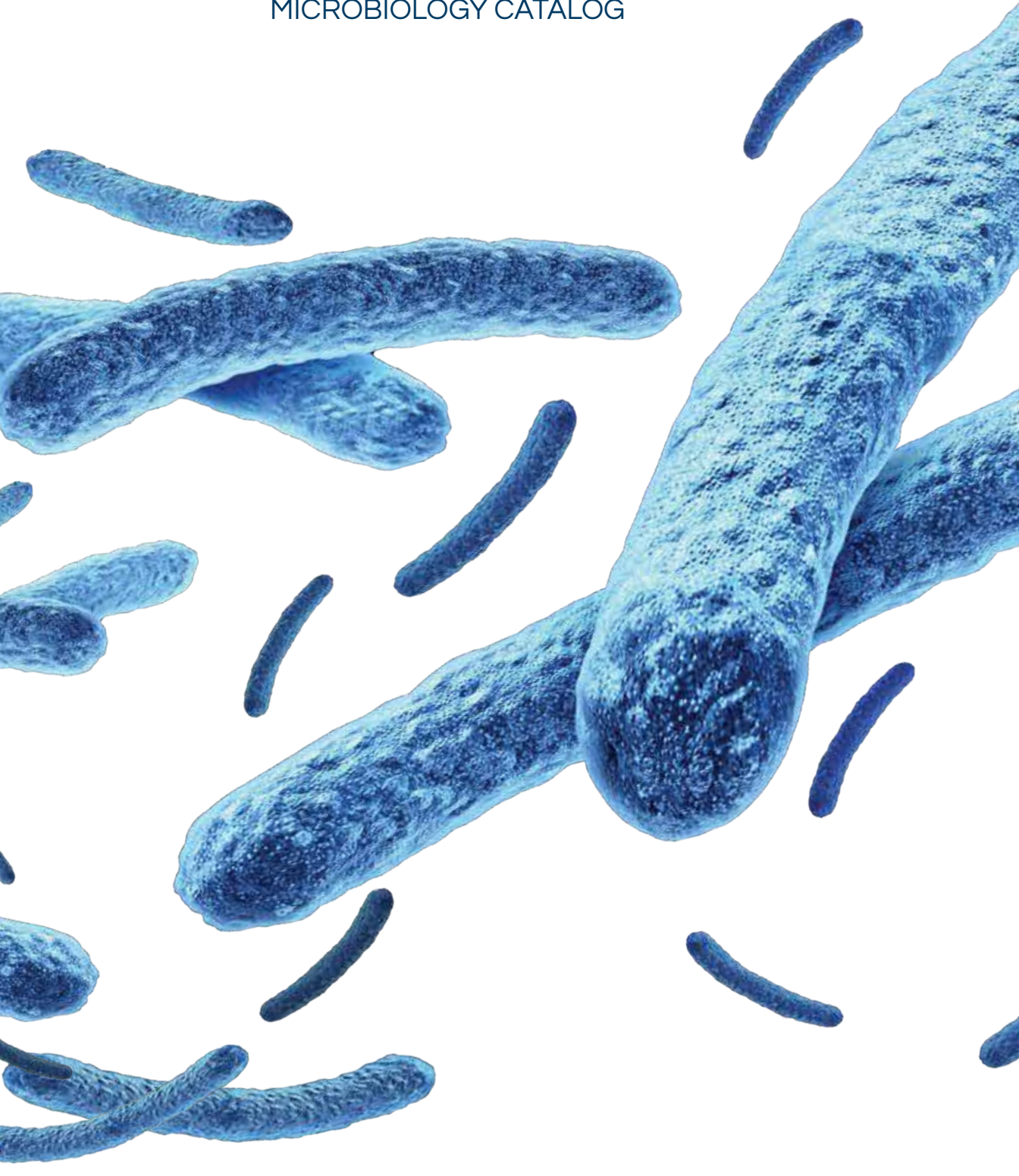




Ethos Biosciences

MICROBIOLOGY CATALOG



LOCATIONS

North America

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Founded through the acquisition of the Excell[®] 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 Biosciences umbrella.

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



Ott Scientific
CATALYZING INNOVATION

OUR PRODUCTS

Ethos Biosciences Astral Diagnostics™ microbiology portfolio includes a wide variety of biological stains and associated reagents that can be used in manual or automated staining methods. Gram and Acid Fast stains generate brilliantly stained specimens, free of background, resulting in the accuracy level required by microbiology professionals.

GRAM STAINS

- Gram Stain Decolorizer
- Gram Stain Decolorizer 1:1
- Gram Stain Decolorizer 75/25
- Gram Stain Set, Stabilized
- Gram Stain Crystal Violet
- Gram Stain Safranin
- Gram Stain, Crystal Violet
- Gram Stain, Safranin
- Gram Stain Set, Traditional
- Gram Stain Set, Stabilized Iodine
- Gram Stain, Iodine, Stabilized
- Gram Stain Lugol's, WS, Iodine
- Gram Stain Iodine, Traditional

DYES & STAINS

- Gentian Violet 1%
- Gentian Violet 2%
- Toluidine Blue 1%
- Malachite Green
- Sternheimer-Malbin (urine sediment)
- Methylene Blue 1%
- Methylene Blue, Loeffler
- Lacto Phenol Cotton Blue
- Alcian Blue

IODINE

- Lugol's Iodine Working Solution
- Lugol's Iodine Concentrate

ACID FAST STAINS

- AFB Kinyoun Set
- AFB Ziehl-Neelsen, Carbol Fuchsin
- AFB Ziehl-Neelsen, Methylene Blue
- AFB Ziehl-Neelsen, Decolorizer
- AFB, Brilliant Green
- AFB, Methylene Blue
- AFB, Fuchsin Carbol
- AFB, Decolorizer



GRAM STAIN

Gram Stain, Decolorizer

Can be used with the Gram stain. FDA approved for *in vitro* diagnostic use.

Product	Catalog #	Size
Gram Stain Decolorizer	6931	1 Gallon
Gram Stain Decolorizer Replacement	6504	4 x 16 oz
Gram Stain Decolorizer 1:1	6932	1 Gallon
Gram Stain, Decolorizer Replacement 1:1	6255	4 x 8 oz
Gram Stain, Decolorizer 75/25 Replacement	6254	8 oz, 4 x 8 oz, or 16 oz

Gram Stain, Crystal Violet

Crystal Violet stains nuclei a deep purple color, aiding in their visualization. It can also be used to visualize colonies of cells. FDA approved for *in vitro* diagnostic use.

Product	Catalog #	Size
Gram Stain, Crystal Violet	6251	8 oz, 16 oz, or bulk
Gram Stain, Crystal Violet Replacement	6501	4 x 16 oz

Gram Stain, Safranin

Safranin is a counterstain used to stain nuclei red. Safranin is a traditional counterstain to the popular Gram stain. FDA approved for *in vitro* diagnostic use.

Product	Catalog #	Size
Gram Stain, Safranin	6956	8 oz, 16 oz, or 1 gallon
Gram Stain, Safranin Replacement	6506	4 x 16 oz
Gram Stain Safranin Set	6256-R	4 x 8 oz

Gram Stain Sets

The Gram stain set is used for the differential staining of bacteria. Gram stain sets and component replacements are specifically formulated for differential staining of bacteria. Gram stain sets are available with traditional non-stabilized iodine or “premixed” stabilized iodine depending on the lab volume and established procedures. FDA approved for *in vitro* diagnostic use.

Product	Catalog #	Size
Gram Stain Set, Traditional	6250	4 x 8 oz
Gram Stain Set, Traditional	6500	4 x 16 oz
Gram Stain Set, Stabilized Iodine	6400	4 x 8 oz
Gram Stain Set, Stabilized Iodine	6600	4 x 16 oz
Gram Stain Set (Stabilized)	6060	4 x 2 oz

Gram Stain, Iodine

Lugol's Iodine is used in the Gram staining protocol.

Product	Catalog #	Size
Gram Stain Lugol's, WS, Iodine	6929	1 gallon
Gram Stain, Iodine, Stabilized	6253	8 oz, 16 oz, or 1 gallon

Iodine Replacement

Stabilized Iodine is pre-mixed, ready-to-use iodine. Traditional Iodine consists of ingredients to prepare fresh iodine. FDA approved for *in vitro* diagnostic use.

Product	Catalog #	Size
Gram Stain, Iodine Replacement, Traditional	6252	4 x 8 oz
Gram Stain, Iodine Replacement, Traditional	6502	4 x 16 oz
Gram Stain, Iodine Replacement, Stabilized	6503	4 x 16 oz

IODINE

Iodine, Lugol's

Lugol's Concentrate is a strong iodine solution for your research needs. Lugol's Working Solution is a ready-to-use iodine solution.

Product	Catalog #	Size
Lugol's Iodine Concentrate	6584D	2 oz dropper
Lugol's Iodine Concentrate	6584	2 oz, 4 oz, or 16 oz
Iodine, Lugol's Working Solution	6583	2 oz or 16 oz



DYES & STAINS

Gentian Violet

Gentian Violet Solution is used for various microbiology applications. In the Gram Stain procedure, it is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria. Gentian Violet is the component that results in blue staining of the Gram-positive bacteria.

Product	Catalog #	Size
Gentian Violet 1%	6090	2 oz dropper
Gentian Violet 2%	6091	4 oz or 16 oz

Toluidine Blue 1%

Toluidine Blue Staining consists of a basic thiazine metachromatic dye used to aid in the identification of disease-causing microorganisms, such as *H. pylori*. Toluidine 1% is also useful in staining plastic sections.

Product	Catalog #	Size
Toluidine Blue 1%	6054	4 oz, 16 oz, or bulk

Malachite Green

A dye used as a biological stain to demonstrate bacterial spores. It is also useful in other research areas.

Product	Catalog #	Size
Malachite Green	6305	8 oz

Sternheimer-Malbin Stain (Urine Sediment)

The Sternheimer-Malbin Stain is a commonly used supravital stain containing Crystal-Violet and Safranin. Leukocytes, epithelial cells and casts stain may also be used with this stain.

Product	Catalog #	Size
Urine sediment stain (Sternheimer-Malbin)	6561	0.5 oz or 4 oz

Methylene Blue

Methylene Blue 1% achieves intense blue staining of the nuclei. Methylene Blue, Loeffler is a multipurpose stain for staining leukocytes and bacteria.

Product	Catalog #	Size
Methylene Blue, 1%	6550	4 oz, 16 oz or 1 gal
Methylene Blue, Loeffler	6558	4 oz or 16 oz

Lacto Phenol Cotton Blue

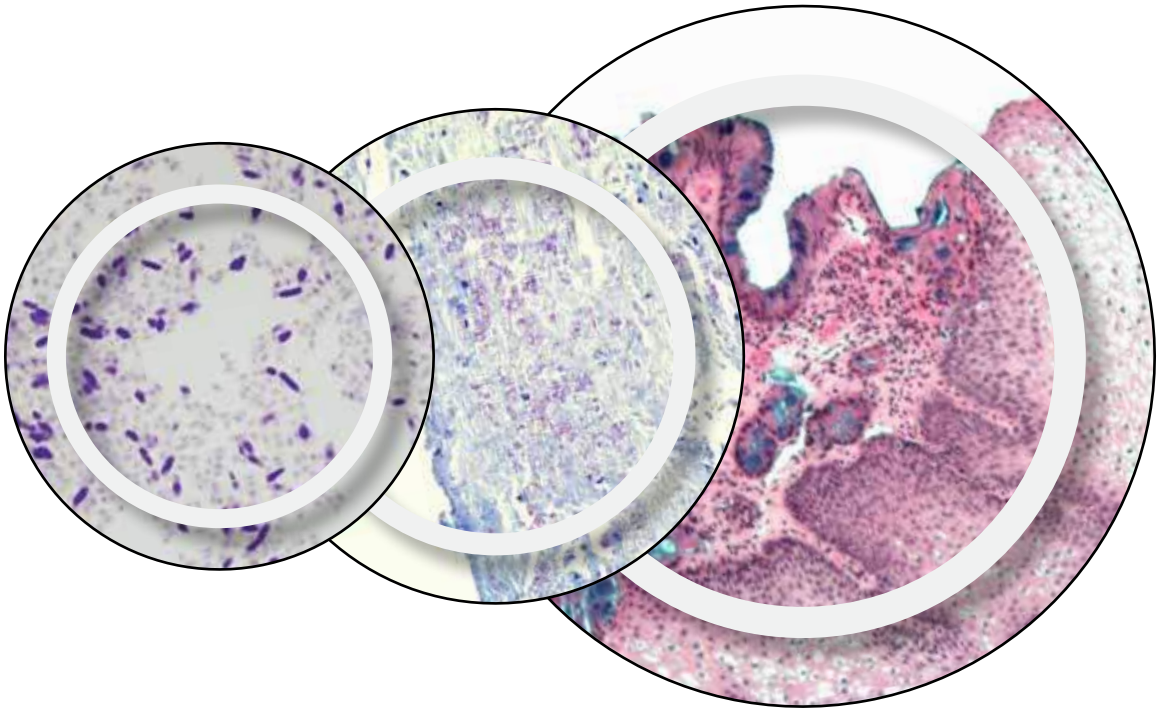
Standard microbiological stain for identifying parasites in wet mount preparation of fungi.

Product	Catalog #	Size
Lacto Phenol Cotton Blue	6701	4 oz, 16 oz, or 30 oz

Alcian Blue

Alcian Blue is primarily used for demonstrating acid mucopolysaccharides; specifically, it is used to visualize acidic epithelial and connective tissue mucins. The product is a 3% acetic acid solution with pH 2.5, which will stain both sulphated acid mucopolysaccharides and glycoproteins. Alcian blue will color the acidic mucins blue but will not color neutral mucins. When combine with Periodic Acid Schiff (PAS) the neutral cells will stain magenta. It is also used in electrophoresis for detecting glycoproteins.

Product	Catalog #	Size
Alcian Blue	7022	16 oz or 32 oz



ACID FAST STAINS

AFB Kinyoun Set

Counterstain used in succession following Carbol-Fuchsin staining and decolorizing in the AFB staining procedure. Used to detect acid-fast microorganisms, specifically mycobacterium. Set includes 8oz bottle of each (Kinyoun): Carbol Fuchsin, Decolorizer, and Brilliant Green Counterstain.

Product	Catalog #	Size
AFB Kinyoun Set	6300	3 x 8 oz

AFB Ziehl-Neelsen

For the staining of bacteria from cultures or patient specimens suspected to contain *Mycobacterium tuberculosis*. The traditional Ziehl-Neelsen method employs the use of heat. Ziehl Neelsen staining method uses Carbol-Fuchsin as a primary stain, followed by a decolorizer solution and Methylene Blue as a counterstain.

Product	Catalog #	Size
AFB Ziehl-Neelsen, Methylene Blue	6330-08	8 oz
AFB Ziehl-Neelsen, Carbol Fuchsin Replacement	6310-08	8 oz
AFB Ziehl-Neelsen, Replacement, Decolorizer	6320-08	8 oz

AFB Kinyoun, Brilliant Green

Counterstain used in succession following Carbol-Fuchsin staining and decolorizing in the AFB staining procedure. Used to detect acid-fast microorganisms, specifically mycobacteria. Set includes 8oz bottle of each (Kinyoun): Carbol Fuchsin, Decolorizer, and Brilliant Green Counterstain.

Product	Catalog #	Size
AFB Kinyoun, Brilliant Green	6303-08	8 oz

AFB, Methylene Blue Counterstains

Counterstain used in succession following Carbol-Fuchsin staining and decolorizing in the AFB staining procedure. Used to detect acid-fast microorganisms, specifically Mycobacteria.

Product	Catalog #	Size
AFB Kinyoun, Methylene Blue	6305	8 oz
AFB Ziehl-Neelsen, Methylene Blue	6330	8 oz

AFB, Decolorizer

Decolorizer used in succession following Carbol-Fuchsin staining in the AFB staining procedure. Used to detect acid-fast microorganisms, specifically Mycobacteria.

Product	Catalog #	Size
AFB Kinyoun, Decolorizer	6302	8 oz
AFB Ziehl-Neelsen, Replacement, Decolorizer	6320-08	8 oz

AFB, Fuchsin Carbol

Fuchsin Carbol is the primary stain used in the AFB staining procedure using the Kinyoun Method. Used to detect acid-fast microorganisms, specifically for Mycobacteria.

Product	Catalog #	Size
AFB Kinyoun, Carbol Fuchsin	6301-08	8 oz
AFB Ziehl-Neelsen, Carbol Fuchsin Replacement	6310-08	8 oz



GENERAL REAGENTS

Immersion Oil

Immersion oil is available in low viscosity (catalog# 5510) and high viscosity (catalog #5511) & is used when an increased magnification of 100x is necessary.

Product	Catalog #	Size
Immersion Oil, Low Viscosity	5510	0.5 oz, 2 oz, or 16 oz
Immersion Oil, High Viscosity	5511	0.5 oz, 2 oz, or 16 oz

Deionized Water

Available in 55 Gallons as well. Please inquire for bulk & volume pricing.

Product	Catalog #	Size
Deionized Water	3315	1 gallon or 5 gallons

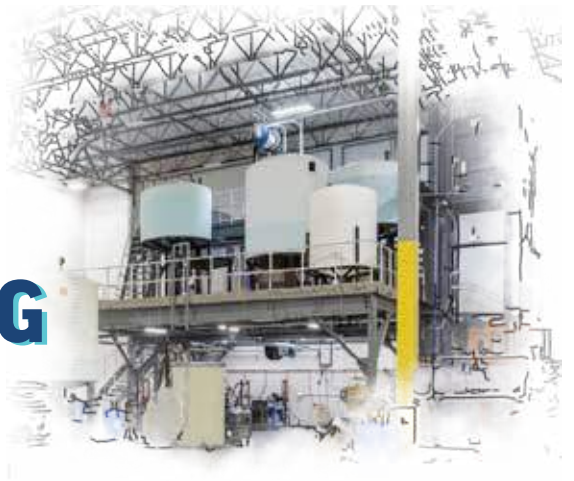
Acid Alcohol

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

Product	Catalog #	Size
Acid Alcohol 0.5%	7560	1 gallon
Acid Alcohol 1%	7560	1 gallon

** This product may have a hazardous shipping charge.*

BULK & PRIVATE LABEL MANUFACTURING



In addition to our diagnostic products and CDMO services, Ethos Biosciences is a manufacturer of biological dyes and stains, reagents, and buffers. We've been supplying branded and private label reagents to laboratories for nearly 25 years under the Astral Diagnostics brand. We work with retail, bulk, private label and contract customers, and our services span formulation, manufacturing, dispensing, packaging, kitting and fulfillment.

Our 126,000ft² facility in Logan Township, NJ houses state-of-the-art equipment for formulation, blending, liquids handling, and filling. On-site scientific, manufacturing and quality control staff lend expert support to every project, and our fully-equipped laboratories are available for application-related testing and troubleshooting. Moreover, global raw material procurement teams and domestic manufacturing offer exceptional supply chain security.

FORMULATION & BLENDING

- Formulation tanks up to 10,000L (2,600Gal)
- 2 x 1,600L (42Gal) steam jacketed kettles
- Mixing equipment for flammable & hazardous materials
- Stain production line: manufacturing, vacuum drying, & dry blending
- Deionized (CLRW grade) water system

FILLING & LIQUIDS HANDLING

- High-speed 4L (1Gal) filling line
- High-speed 500mL / 1L (16oz, 32oz) filling line
- High-speed 30 - 250mL filling line
- High-speed hot melt / high viscosity line: 5g - 250g (0.2 - 9.0oz)
- Small volume capabilities: 0.5mL - 25mL (0.02 - 1.0oz)
- Semi-automated cube filling line: 4 - 20L cubes (1 - 5Gal)
- Viscous liquids, hazardous and flammable materials handling capabilities

Contact us to begin the discussion about how our services can help to streamline and secure your supply chain & scale your business.



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. We have a deep understanding of dye and stain formulations and ensure each new batch has the highest quality. Ethos' Astral Diagnostics products are supported by fully-equipped, on-site laboratories that are staffed with analytical chemists and accredited Medical Laboratory Scientists and Histologists. 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 Customers

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. Contact us at info@ethosbiosciences.com or 800-441-0366.

Testing solutions in support of a healthy world!

Ethos Biosciences' facility is a registered **Food and Drug Administration Establishment**, and our Quality Management System has been certified to comply with **ISO 13485:2016**.





Ethos Biosciences

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