



astraldiagnostics

DIAGNOSTIC STAINS FOR VETERINARY CLINICS



ABOUT US

We are a manufacturer of high-quality diagnostic stains and laboratory reagents. We have proudly served lab suppliers, the medical market, and the academic community for 20 years with quality products and superior service.

OUR VALUE

Technical Service

- Need help troubleshooting a stain? We have technical staff waiting to assist you (*not automated answering systems*), no matter the complexity of the staining issue.
- Uncertain about which stain is appropriate for your specimen, we can offer our expertise to identify the appropriate stain from our wide array of diagnostic stains to provide your desired results.
- Need a staining protocol? We offer numerous detailed protocols, easily downloadable from our website.

Quality

We have highly trained chemists, histologists and QC technicians who test our stains on actual specimens using manual and/or automated stain equipment to ensure lot-to-lot stain consistency and that our stains will work in your vet laboratory.

Customer Service

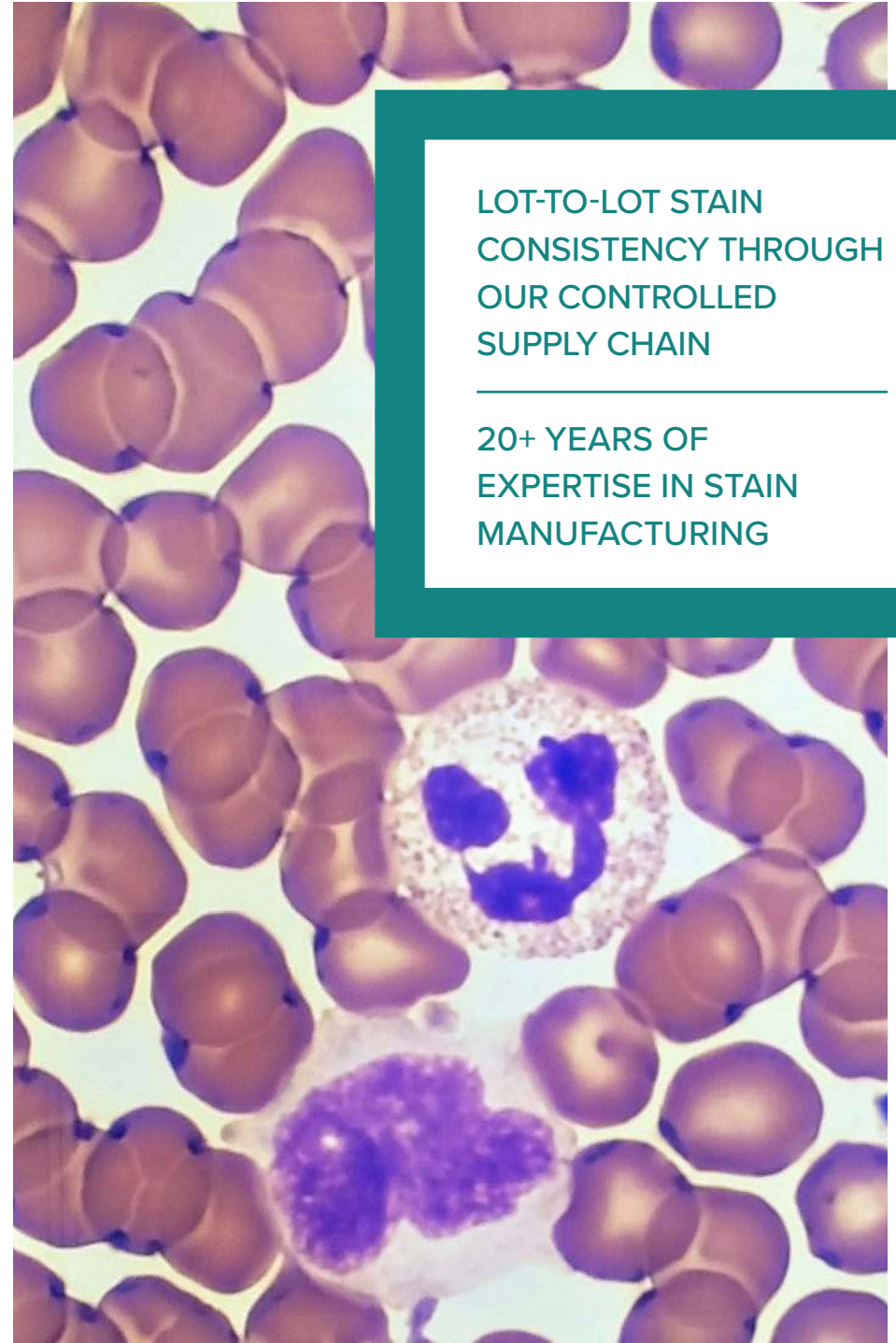
- Experiencing problems with out-of-stock items elsewhere? We have you covered. We have a steady supply chain and maintain stock of our most sought-after diagnostic stains.
- Our top priority is that our customers' needs are met with timeliness and care in a cost-conscious manner.

HEMATOLOGY

The [Astral Diagnostic's Hematology](#) portfolio features an exceptional line of stains and reagents for use with both manual and automated staining protocols.

Reticulocyte count and WBC offerings are supplemented by three-step staining protocols that result in rapid differentials.

The use of certified dyes along with strict adherence to quality assurance procedures provides the foundation for products that reward the user with excellent morphological examination.



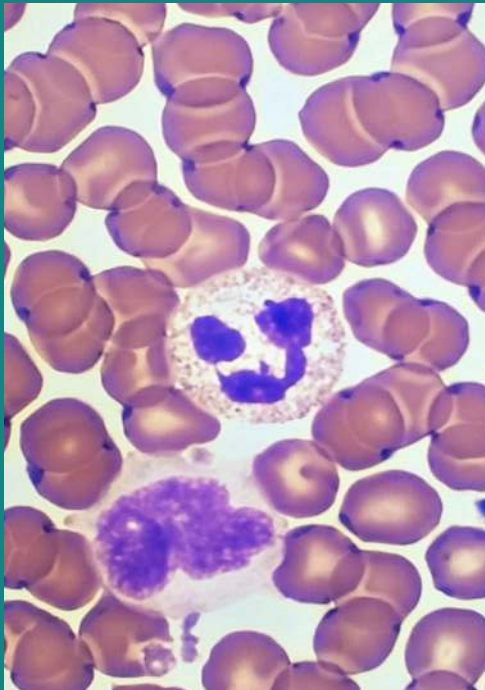
LOT-TO-LOT STAIN
CONSISTENCY THROUGH
OUR CONTROLLED
SUPPLY CHAIN

20+ YEARS OF
EXPERTISE IN STAIN
MANUFACTURING

QUICK III™ SET FOR DIFFERENTIALS

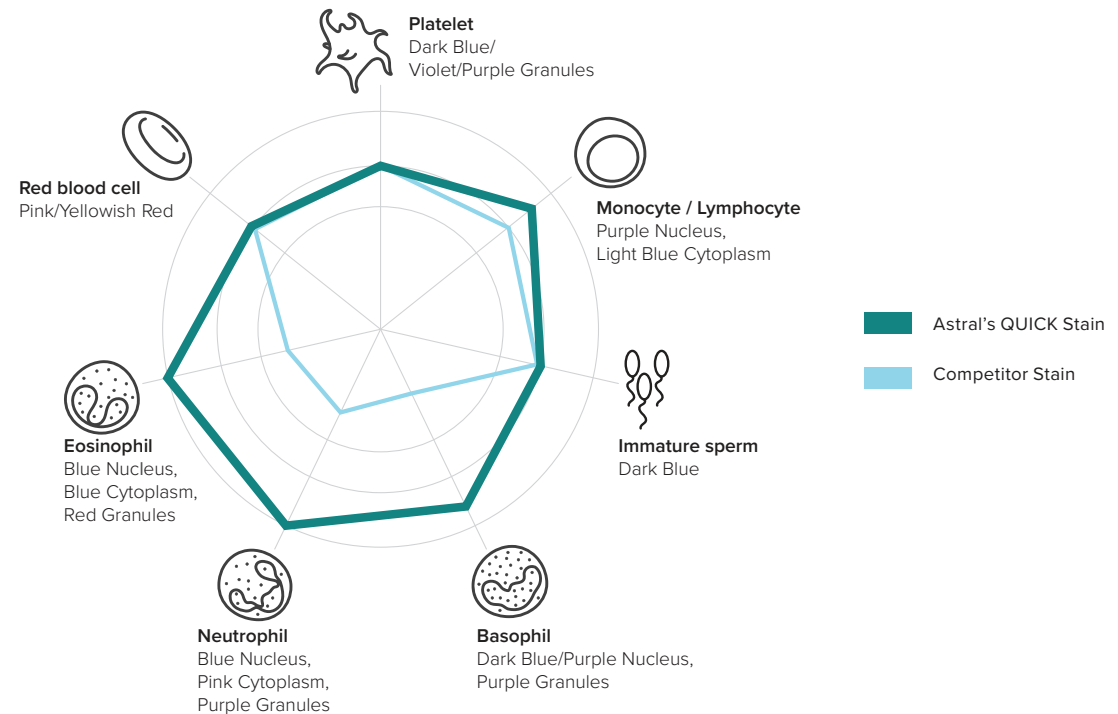
Three-step procedure for differentiation of morphological cell types in peripheral blood smears.

Quick 15 second slide dip procedure vs other products that may take up to 2 min.



QUICK III™ provides superior staining for...

Staining Results	ASTRAL DIAGNOSTICS QUICK III	Competitor's- 3 step Differential Stain
Red blood cells	Good staining	Good staining
Neutrophil	Excellent nuclear and cytoplasmic definition	Weak nuclear and cytoplasmic staining, lack of granular detail
Eosinophil	Excellent staining intensity; great nuclear detail	Weak staining, poor nuclear detail
Monocyte/Lymphocyte	Great staining detail	Good staining detail
Basophil	Great intensity staining	Inconsistent staining
Platelet	Good staining	Good staining
Immature sperm	Good staining	Good staining



QUICK III™ SET FOR DIFFERENTIALS

Three-step procedure for differentiation of morphological cell types in peripheral blood smears.

Quick 15 second slide dip procedure vs other products that may take up to 2 min.



CASE STUDY

Astral knows that the white blood cell morphology is the trickiest part of a smear to differentiate. Therefore, we have designed our stains to have exceptional intensity and definition for basophilic (white blood cell) morphology.

We have been contacted by customers using competing 3-step/Quick stains that have difficulty differentiating between the white blood cells and our experienced on-staff experts have observed differences in quality when comparing hematology slides with a competitor’s stain compared to our stain. They’ve observed that the competitor’s stain was less than optimal to our Astral Stain QUICK III Stain.

Astral’s QUICK III stain provides exceptional quality in differentiating between the white blood cells types to quickly diagnose the patient’s sample. Neutrophils can be easily observed with light pink cytoplasm and granules with a deep purple nuclei.

Some competitors have weak staining, which makes it difficult to analyze these white blood cells critical to identifying potential illnesses.

One of the benefits our clients have experienced while working with Astral Diagnostics is our expert staff, who help solve problems and recommend the best solutions. They also help identify issues you may be experiencing with your current provider.

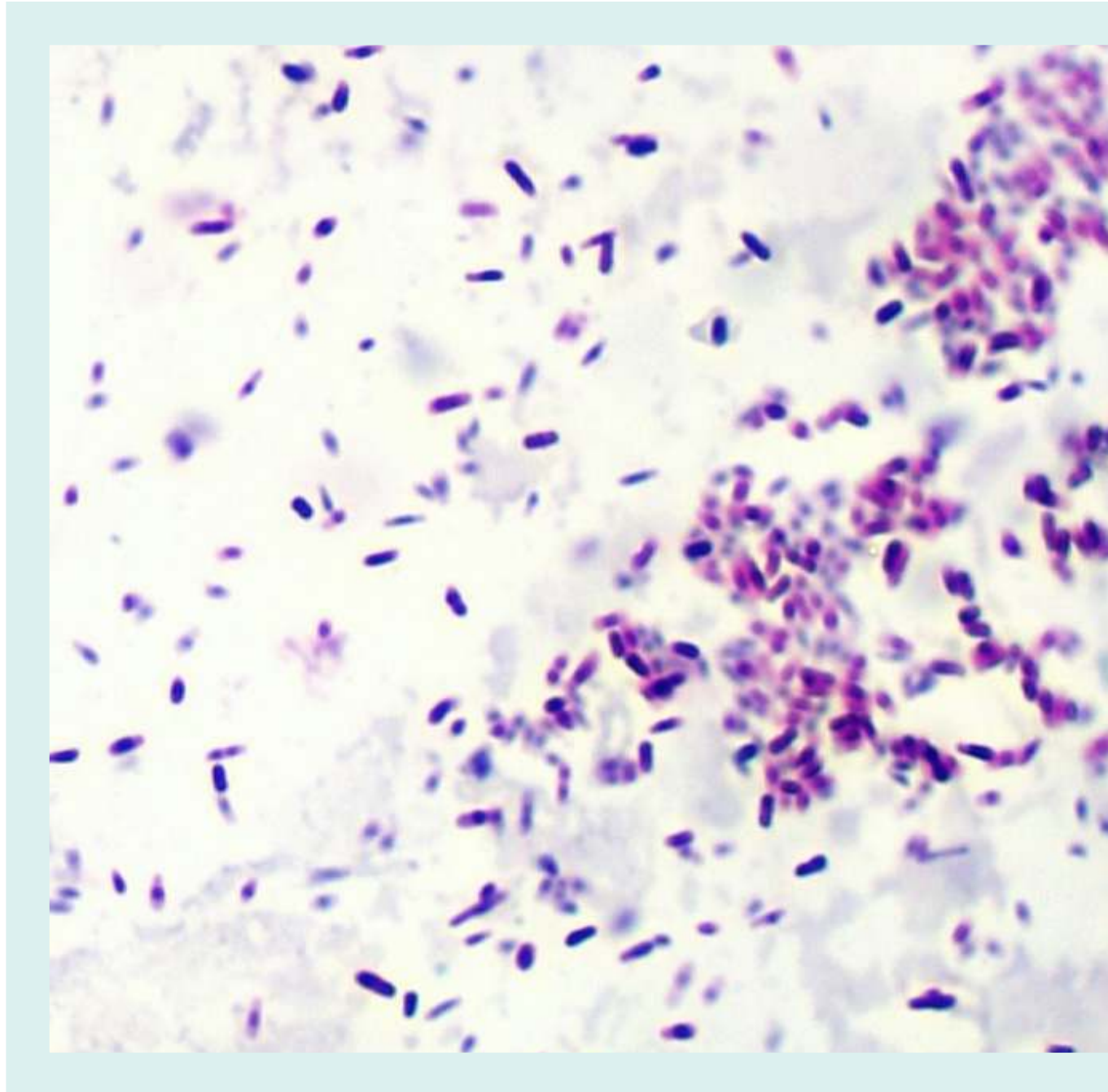
Test / Use	Specimen	Product	Description	Product #	Sizes
Reticulocyte count	Blood sample (EDTA), blood smear	<u>New Methylene Blue</u>	A supravital stain that assists with reticulocyte visualization and count in whole blood.	5551	2,4, 8, 16oz
WBC (leukocytes) count for reptiles & birds	Blood sample (EDTA), blood smear	<u>Natt-Herrick's Solution</u>	A traditional avian blood counting solution.	5593	16oz
CBC	Blood sample (EDTA), blood smear	<u>Quick III Set for Differentials</u>	Three-step procedure for differentiation of morphological cell types in peripheral blood smears.	5303	3 x 4oz

MICROBIOLOGY

[Astral's Microbiology](#) portfolio includes a variety of biological stains and associated reagents that can be used in manual or automated staining methods.

Accurate diagnosis and eventual antibiotic treatment are often directly related to laboratory results. Typically, misdiagnosis are due to issues with the stain protocol.

Need a staining protocol? We offer numerous detailed protocols easily downloadable from our website, see our [Resources](#) page.



MICROBIOLOGY / PARASITOLOGY



Acid-fast organisms have cell walls that are resistant to conventional staining. Acid-fast stains work to promote the uptake of the dyes.

Additionally, once stained, these organisms are not easily decolorized (even with alcohol or acid acetone solutions). This is where they get the name “acid-fast.” The decolorizer is used to remove the dye from any non-acid-fast material in the specimen.

The common issue that occurs with rapid growers - acid-fast organisms - is that the organism doesn’t retain the acid-fast dye; it fails to stain properly. As a result, the organism shows little-to-no carbol fuchsin coloring.

Acid Fast Bacteria stain solutions provide brilliantly stained specimens, free of background staining, resulting in the accuracy level required by veterinarians and vet technicians.

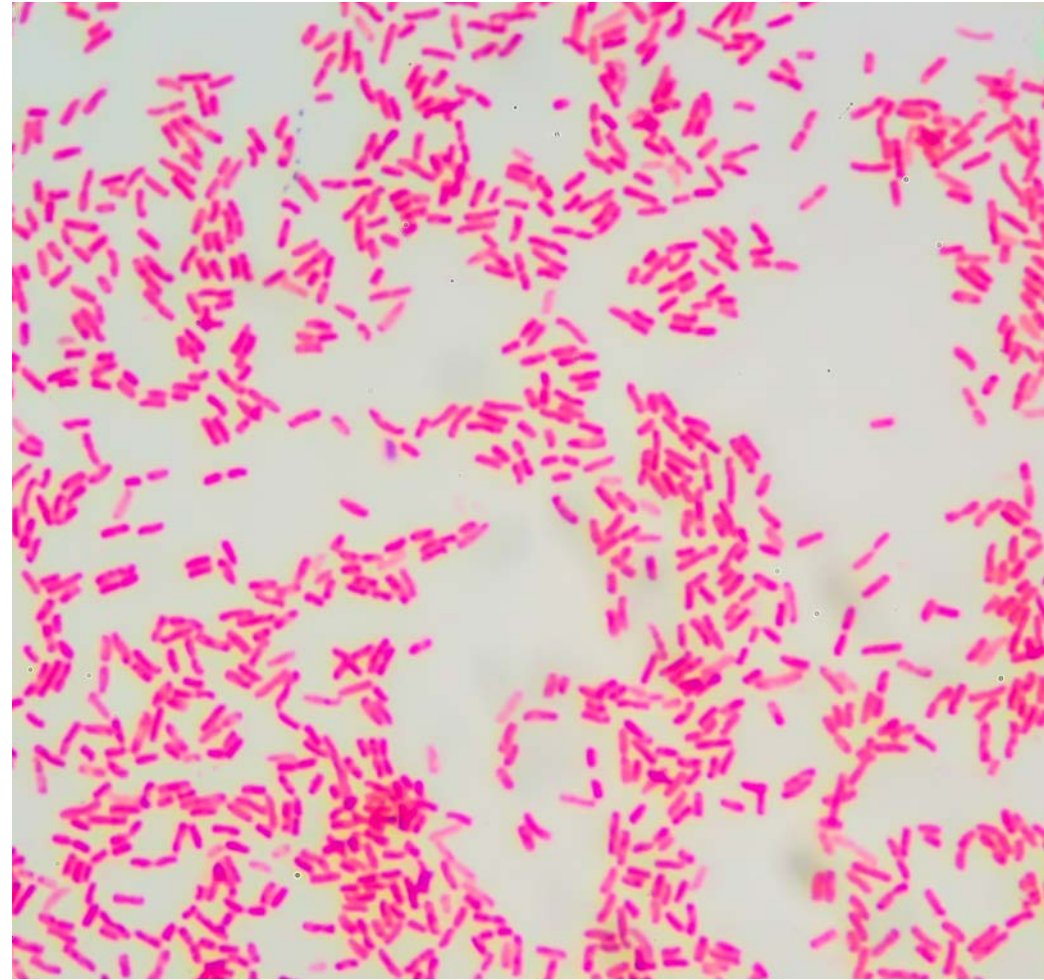
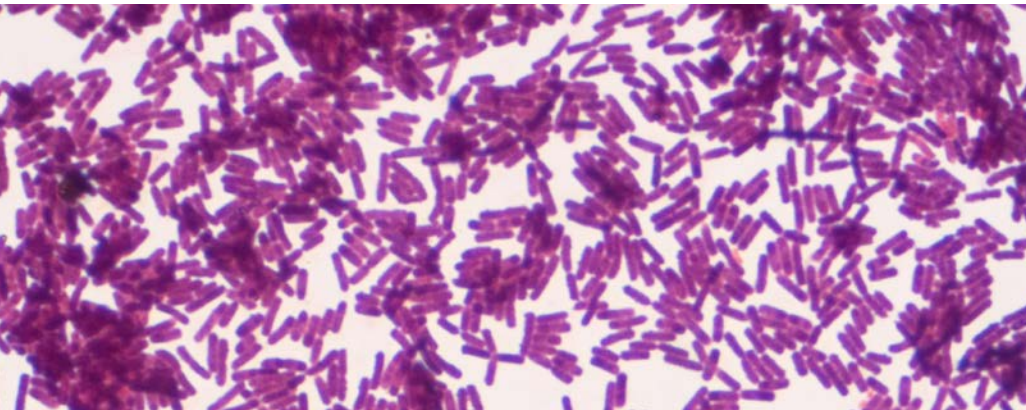
NEED HELP TROUBLESHOOTING A STAIN? WE HAVE TECHNICAL STAFF WAITING TO ASSIST YOU.

Test / Use	Specimen	Product	Description	Product #	Sizes
Intestinal protozoa	Feces	Trichrome Stain (Wheatley’s Modified)	Wheatley’s modification provides a rapid procedure that produces uniform, well-stained smears and is the best stain to support stool examinations for intestinal protozoa.	6920	8, 16, 32oz
Skin parasites	Skin scrape	Lactophenol Cotton Blue	Standard microbiological stain for identifying parasites in wet mount preparation of stool specimen	6701	4, 16, 30oz
Mycobacterial screening	Smear	AFB Kinyon Stain	Staining of bacteria from cultures or animal specimens suspected to contain Mycobacteria tuberculosis can be easily achieved using one of two methods: (1) hot method or (2) cold method.	6300	3 x 8oz
Cryptosporidium, Fecal parasitology	Feces	AFB Modified ZN Stain		6309	3 x 8oz

MICROBIOLOGY / BACTERIOLOGY

Typically, misdiagnosis of [Gram stains](#) are due to issues with the stain protocol and gram stains decolorizing too quickly (suggesting gram-positive bacteria) or too slowly (suggesting gram negative bacteria).

If the Gram stain is falsely negative, it is decolorizing too slowly. If you don't decolorize quickly enough, or keep the colorizer on too long, you'll get a false negative for the Gram positives. Adjust the time the specimen is in the colorizer and remove it sooner to avoid this issue.



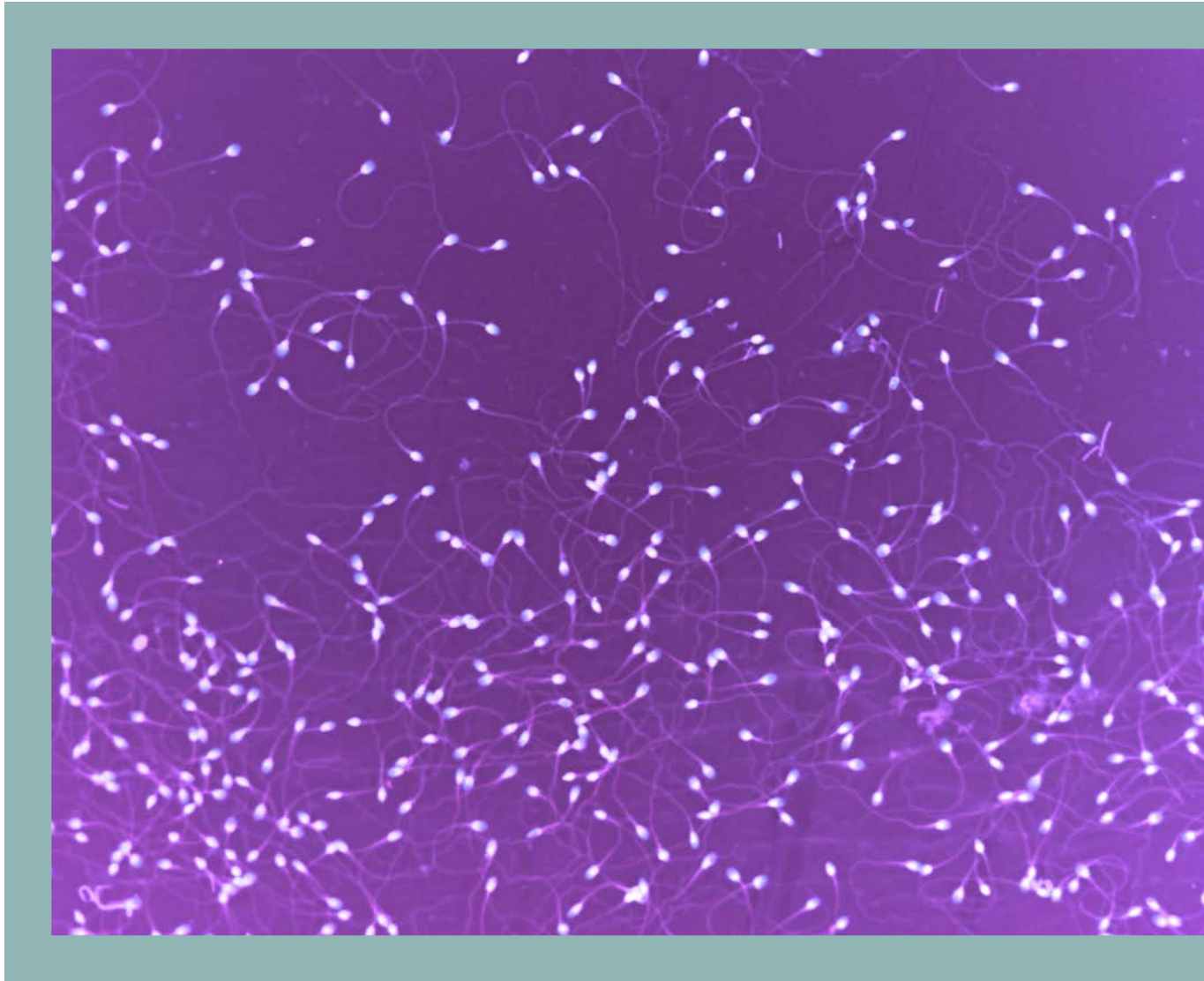
Test / Use	Specimen	Product	Description	Product #	Sizes
Sediment examination & ova	Urine	Urine Sediment Stain (Sternheimer-Malbin)	The Sternheimer-Malbin Stain is a commonly used supravital stain used for sediment examination to reveal ova to assist in diagnosis of giant kidney and bladder worms. Leukocytes, epithelial cells, and casts stain well with this stain.	6561	0.5, 2, 4, 32oz
Gram positive/negative bacteria	Abscess, Ear, Eye, Sputum, Body fluid, Tissue, & Swab	Gram Stain	For staining bacteria from cultures or patient specimens by the differential Gram stain method.	6400	4 x 8oz

SPERMATOZOA

The Nigrosin Stain provides a dark background for easier recognition of both viable and non-viable spermatozoa. The unstained (white) spermatozoa represent those which are “live” whereas the stained pink spermatozoa represent those which are “dead”.

EXPERIENCING PROBLEMS
WITH OUT-OF-STOCK ITEMS
ELSEWHERE? WE HAVE
YOU COVERED.

WITH A STEADY SUPPLY
CHAIN, WE MAINTAIN STOCK
OF OUR MOST SOUGHT-AFTER
DIAGNOSTIC STAINS.



Test / Use	Specimen	Product	Description	Product #	Size
Sperm viability	Semen	Eosin Nigrosin Semen Stain	Eosin-Nigrosin is a staining technique that assesses the vitality of a sperm sample.	5592	0.5oz

COMPLEMENTARY PRODUCTS

Test / Use	Specimen	Product	Product #	Sizes
Biopsy	Target organ, small & large biopsy	<u>10% Neutral Buffered Formalin</u>	3320	16oz, 1 gal
Increase the resolving power for microscopic analysis at high power	Bacteria, blood smears	<u>Immersion Oil</u>	5510	0.5, 2, 4, 16oz
Topical hemostatic.	Post surgery, small wounds, nail and wing trimming	<u>Ferric Subsulfate (Monssel's Solution)</u>	3390	2, 4, 16oz



COMPLETE PRODUCT LISTING

Cat. #	Description	Sizes
6300	AFB Kinyoun Set	3x8oz
6301	AFB Kinyoun, Carbol Fuchsin	8oz, 16oz
6302	AFB Kinyoun, Decolorizer	8oz, 16oz, 1 Gallon
6303	AFB Kinyoun, Brilliant Green	8oz, 16oz
6304	AFB Set, Kinyoun, MB Counterstain	3x8oz
6305	AFB Kinyoun, Methylene Blue	8oz, 16oz
6309	AFB Ziehl-Neelsen Set	3x8oz
6310	AFB Ziehl-Neelsen, Carbol Fuchsin	8oz, 16oz
6320	AFB Ziehl-Neelsen, Decolorizer	8oz, 16oz, 1 Gallon
6330	AFB Ziehl-Neelsen, Methylene Blue	8oz, 16oz
6060	Gram Stain Set, Stabilized Iodine	4x2oz
6250	Gram Stain Set, Traditional	4x8oz
6251	Gram Stain, Crystal Violet	4x8oz, 8oz, 16oz
6252	Gram Stain, Iodine Replacement, Traditional	4x8oz
6253	Gram Stain, Iodine, Stabilized	4x8oz, 8oz, 16oz
6254	Gram Stain, Decolorizer 75/25	4x8oz, 8oz, 16oz
6255	Gram Stain, Decolorizer Replacement 1:1	4x8oz
6256	Gram Stain, Safranin	4x8oz, 8oz, 16oz
6400	Gram Stain Set, Stabilized Iodine	4x8oz
5551	New Methylene Blue	2oz, 4oz, 8oz, 16oz
5592	Eosin Nigrosin Semen Stain	0.5oz
5510	Immersion Oil, Low Viscosity	2oz, 4oz
3320	Formalin 10%, Buffered	1 Gallon
6561	Urinary Sediment Stain (Sternheimer-Malbin)	0.5 oz
6701	Lactophenol Cotton Blue	4oz, 16oz, 30oz





astraldiagnostics incorporated

We're your resource for Veterinary diagnostic stains. Contact us today at info@astraldiagnosics.com or visit our website AstralDiagnostics.com