



VETERINARY
MICROBIOLOGY

VETERINARY MICROBIOLOGY



FM 572526

Hardy Diagnostics has a Quality Management System that is certified to ISO 13485 and is a FDA licensed medical device manufacturer.

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Albany, New York
Raleigh, North Carolina

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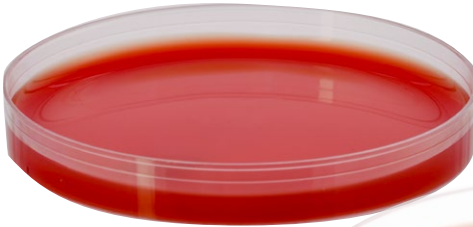
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BOVINE MASTITIS



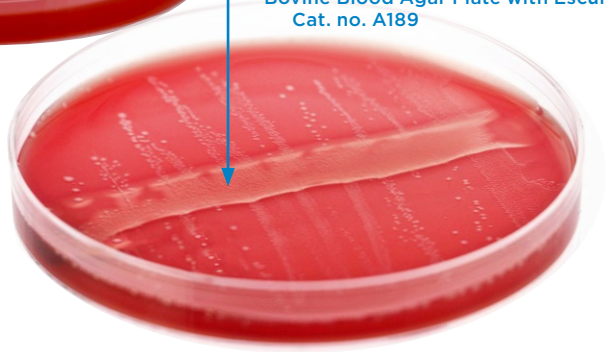
Mastitis Microbiology Made Easy!

Our products are designed to aid in the rapid identification of bovine mastitis organisms, and to enhance your mastitis control program.



Bovine Blood Agar Plate, Cat. no. A188

Enhanced hemolysis with addition of Beta Toxin (positive CAMP reaction)
Aids in identification of *Streptococcus agalactiae*
Bovine Blood Agar Plate with Esculin, Cat. no. A189



StaphTex™ Blue Kit



- Our Bovine Blood Agar uses bovine blood cells that are triple washed for improved sensitivity.
- *Staphylococcus aureus* can be confirmed within one minute by using the StaphTex™ Blue Kit, Cat. nos. ST1000, ST200, ST50.

SPEED

Obtain reliable results in 24 hours for *Staphylococcus* and *Streptococcus*.

PERFORMANCE

All of our mastitis media formulas are engineered for superior performance and consistency.

QUALITY

Hardy Diagnostics has been manufacturing quality media for microbiologists since 1980.

BOVINE MASTITIS

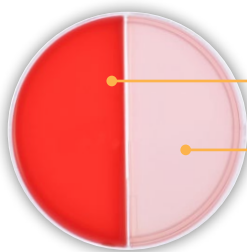


BOVINE BLOOD AGAR PLATE WITH ESCULIN

Media contains full strength Esculin. For the detection of organisms that may cause mastitis in cattle, especially *Streptococcus uberis*.

15x100mm plate, 10/pk

A189



Bovine Blood with Esculin

MacConkey

Bovine Blood Agar Biplate, Cat. no. J129

BOVINE BLOOD AGAR

(TSA with 5% Triple Washed Cow Blood)

For detection of organisms such as *Staphylococcus aureus* and *Streptococcus agalactiae*. 5%, for bovine mastitis.

15x100mm plate, 10/pk

A188

BOVINE SELECTIVE STREP AGAR

For the selective isolation of *Streptococcus* species. It is also known as TKT Agar, CAMP Agar, or Modified Edwards Agar.

15x100mm plate, 10/pk

A143

BOVINE SELECTIVE STAPH AGAR

Recommended for the cultivation, and selective isolation, of *Staphylococcus* from Bovine Mastitis specimens.

15x100mm plate, 10/pk

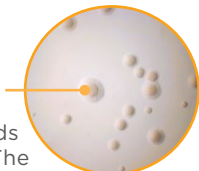
A157

CALIFORNIA MASTITIS TEST KIT

Kit comes with 1-pint CMT concentrate, paddle, and bottle, holds approximately ½ pint. The most efficient, accurate, and easy to use cowside test for mastitis. Serves to estimate the cell content of milk. It can be used on foremilk or strippings. The test was designed so that it can be applied at the side of the cow, but may also be used on bucket samples or bulk milk.

California Mastitis Kit

CMTKIT



MYCOPLASMA AGAR

For the detection of *Mycoplasma* spp. Colonies have a "fried egg" appearance when viewed at 100X under the microscope.

15x100mm plate,

10/pk

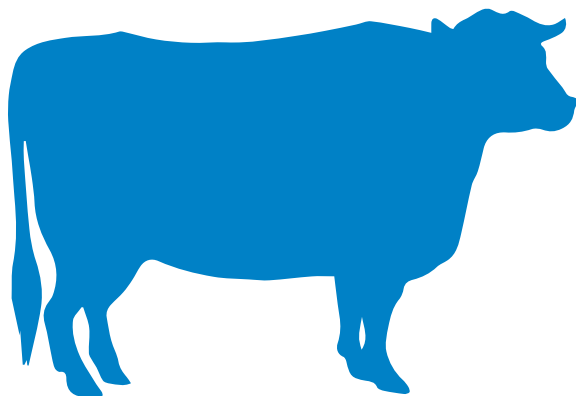
G102

MASTITIS BIPLATE

Bovine Blood Agar with Esculin / MacConkey Agar

15x100mm biplate, 10/pk

J129



BETA TOXIN FOR CAMP REACTION



BETA TOXIN SOLUTION

Used to determine the CAMP reaction which aids in the presumptive identification of *Streptococcus agalactiae* from bovine samples. 100ml fill, 125ml polycarbonate bottle, Each **Z305**



60ml PETG bottle, 25ml fill, Each

Z306

URINALYSIS

URINE DIPSTICK CONTROL SET

Normal and abnormal levels, by Quantimetrix. The Dropper, normal & abnormal, levels 1 & 2, 4x25ml, **144002**

URISTAIN™

A stabilized modification of the Sternheimer-Malbin Urine Sediment Stain for easy differentiation of red and white cells. Bacteria is red when alive and purple when dead.

15ml

Z74

URINALYSIS ACCESSORIES

CASTILE SOAP TOWELETTES

General purpose cleaning towelettes contain 2% coconut oil based soap solution; pH balanced.



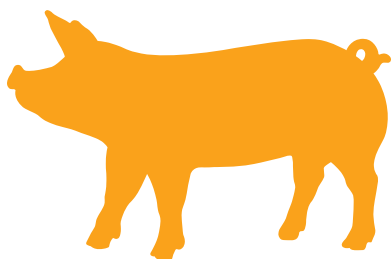
Individual foil packets, 2 x 2.25 inches, 100 pads/bx **D41900**

SURETIGHT™ SPECIMEN SAMPLE CUPS

SureTight™ safely contains sample in the cup and will remain that way throughout transport to the lab. Includes tamper-evident tab, identification label, and graduation lines.



Sterile, 90ml cups, 400/case **243810**



URINE CULTURE SYSTEM



Hardy**CHROM**[™]

HUrBi[™]

Gram
+

Gram
-

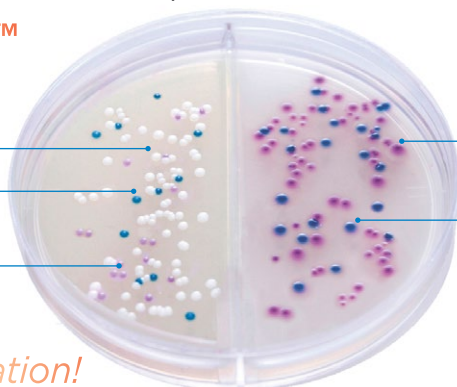
Staphylococcus aureus

Enterococcus faecalis

Staphylococcus saprophyticus

Escherichia coli

Klebsiella pneumoniae



Easy Interpretation!

Bacterial colonies turn a specific color!

HardyCHROM HUrBi[™] (Hardy Urine Biplate) is formulated to assist in characterizing isolates by isolating Gram-positive organisms on one side of the biplate and Gram-negative organisms on the other side of the biplate. HUrBi[™] offers chromogenic culture media to facilitate the detection and differentiation of common urinary tract microorganisms by color reactions.

• LOGICAL

Totally separate organisms with Gram-positive on one side and Gram-negative on the other.

• SAVES MONEY

Reduce the need for expensive automated ID cards.

• CONFIRMATORY

Identify *E. coli* and *Enterococcus* spp. with no further testing needed!

• EASY READ-OUT

Obtain distinct color reactions for each of the commonly isolated organisms and facilitate the detection of mixed cultures.

GRAM + SIDE

- *S. aureus*
- *S. epidermidis*
- *S. saprophyticus*
- *Enterococcus* spp.
- *Candida* spp.
- *Listeria* spp.
- *S. agalactiae*

GRAM - SIDE

- *Proteus*, *Morganella*, and *Providencia* spp.
- *E. coli*
- KES Group (*Klebsiella*, *Enterobacter*, *Serratia* spp.)
- *Citrobacter* spp.
- *Pseudomonas* spp.

BLOOD AGAR, 5%/MACCONKEY BIPLATE

(Tryptic Soy Agar with 5% Sheep Blood/MacConkey Agar)

Section I: Blood Agar products for use as general purpose growth media for the isolation, cultivation, and differentiation of a wide variety of microorganisms.

Section II: MacConkey Agar for use as a selective and differential medium for the isolation of Gram-negative bacilli, on the basis of lactose fermentation.

15x100mm biplate,
10 plates/package

J32

100mm biplate, 10 plates/package J100





SKIN CULTURE SYSTEMS (DERMATOPHYTES)

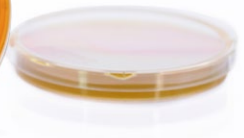
DERM-DUET™

A two-section agar plate containing DTM (Dermatophyte Test Medium) and RSM™ (Rapid Sporulation Medium™). Derm-Duet™ provides the user with the simultaneous advantage of the distinctive color change of the DTM and the rapid sporulation and visual pigmentation of RSM™. The two-section test plate system provides for comprehensive analysis of dermatophytic microorganisms that cause the vast majority of skin lesions seen in the veterinary medicine.

15ml per section, 15x100mm biplate, 10/pack



Derm-Duet™,
15x100mm biplate,
cat. no. J350



J350



DERM-DUET™ II

Each Derm-Duet™ is individually wrapped and can be stored at room temperature. 15ml per section, 15x100mm biplate, individually bagged, room temp. storage, 10/pack

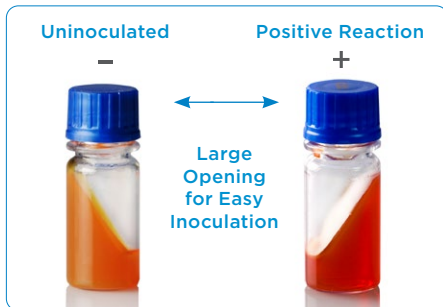
J175

DERMATOPHYTE TEST MEDIUM

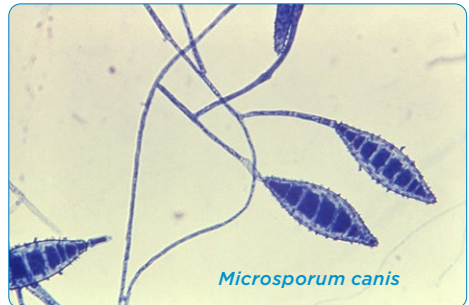
DTM Slant is packaged in a plastic screw-cap vial for easy detection of dermatophytic fungi (ringworm).

20/pack

L27



DTM Slant, Cat. no. L27.



Photomicrograph magnified 475X, courtesy of
Centers for Disease Control and Prevention

POTASSIUM HYDROXIDE

For use in slide preparations of specimens for the purpose of identifying fungal elements. Dissolves epithelial cells that may mask fungal elements.

10% KOH, for skin fungal preps, 15ml dropper vial

Z77

20% KOH, for skin fungal preps, 15ml dropper vial

Z78



Cat no. Z77

STAPH, MRSA, & CANDIDA



HARDYCHROM™ STAPH AUREUS

For the rapid and reliable detection of *Staphylococcus aureus*. This medium contains a special chromogenic mix that allows for the differentiation of *Staphylococcus* spp.

15x100mm plate, 10/pack

G311



Methicillin-resistant *Staphylococcus aureus* (ATCC® 43300) growing on HardyCHROM™ MRSA, showing magenta colonies. Incubated aerobically for 24 hours at 35 °C.

HARDYCHROM™ MRSA

A selective and differential chromogenic medium recommended for the qualitative detection of nasal colonization by methicillin-resistant *Staphylococcus aureus* (MRSA) to aid in the prevention and control of MRSA infections.

15x100mm plate, 10/pack

G307



C. glabrata (ATCC® 66032) colonies growing on HardyCHROM™ Candida incubated aerobically for 48 hours at 35 °C.

HARDYCHROM™ CANDIDA

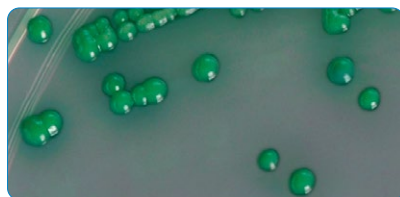
A differential culture medium that facilitates the isolation and differentiation of clinically important yeast species. This medium is especially useful in detecting mixed yeast infections. It allows a complete view of mixed populations of yeasts while inhibiting the majority of bacterial species. HardyCHROM™ Candida relies on chromogenic substrates to reveal specific enzymes for species differentiation by colony color.

15x100mm plate, 10/pack

G301



C. krusei (ATCC® 14243) colonies growing on HardyCHROM™ Candida incubated aerobically for 48 hours at 35 °C.



C. albicans (ATCC® 10231) colonies growing on HardyCHROM™ Candida incubated aerobically for 48 hours at 35 °C.



MISCELLANEOUS CULTURE MEDIA



BILE ESCULIN AGAR (BEA)

For the detection of group D streptococci including enterococci.

15x100mm plate, 10/pack **G12**

BLOOD AGAR, 5% SHEEP BLOOD/ MACCONKEY BIPLATE

15x100mm biplate, 10/pack **J32**

BLOOD AGAR PLATE, 5% SHEEP BLOOD IN TRYPTIC SOY AGAR (TSA) BASE

15x100mm biplate, 10/pack **A10**

BRUCELLA AGAR WITH HEMIN AND VITAMIN K /LKV

(Laked Blood, Kanamycin, Vancomycin)

For the cultivation of anaerobic bacteria and the selective isolation of *Bacteroides* spp.

15x100mm biplate, 10/pack **J87**

CAMPY CVA AGAR

(Campy Agar with 5% Sheep Blood, Cefoperazone, Vancomycin, and Amphotericin B.)

For the selective isolation of *Campylobacter jejuni* from fecal specimens.

15x100mm plate, 10/pack **A40**

CHOCOLATE AGAR

Gonococci Agar (GC) Base with 1% bovine hemoglobin and koenzyme supplements. For use in the isolation and cultivation of fastidious microorganisms, particularly *Haemophilus* and *Neisseria* species.

15x100mm plate, 10/pack **E14**

GRAM NEGATIVE (GN) BROTH

For the selective enrichment of *Salmonella* and *Shigella* spp. in stool specimens.

16x125mm tube, 10ml, 20/pack **K39**

HE AGAR

(Hektoen Enteric)

For the selective isolation of Gram-negative enteric bacteria, such as *Salmonella* spp. and *Shigella* spp.

15x100mm plate, 10/pack **G63**

Blood Agar Plate, 5% Sheep Blood in Tryptic Soy Agar (TSA) Base

Staphylococcus aureus

Campy CVA Agar

Campylobacter jejuni

Chocolate Agar

Neisseria gonorrhoeae

HE Agar

Shigella flexneri

MISCELLANEOUS CULTURE MEDIA



LIA SLANT

(Lysine Iron Agar)

For the identification of Gram-negative enteric pathogens.

13x100mm tube, 20/pack R22

MACCONKEY AGAR

For the isolation and differentiation of Gram-negative bacteria, especially the *Enterobacteriaceae* group.

15x100mm plate, 10/pack G35

MUELLER HINTON AGAR

For antimicrobial susceptibility testing of non-fastidious bacteria utilizing the disk diffusion sensitivity method.

15x150mm plate, 10/pack H11

MUELLER HINTON AGAR WITH 5% SHEEP BLOOD

For disk diffusion sensitivity testing of *Streptococcus* spp.

15x100mm plate, 10/pack A59

ROSE AGAR

(CNA and PEA Combination)

For the selective isolation of Gram-positive bacteria.

15x100mm plate, 10/pack A66

THIOGLYCOLLATE WITH H AND K

(Hemin and Vitamin K)

For the cultivation of anaerobic bacteria.

16x100mm tube, 5ml, 20/pack K22

SALINE, 0.85%

For the preparation of isotonic suspensions and dilutions of microorganisms.

13x100mm tube, 2ml, 20/pack R45

SABDEX SLANT

(Sabouraud Dextrose Agar)

For the cultivation of fungi.

20x125mm tube, 20/pack L40

SABDEX C & G/DTM

(Sabouraud Dextrose with Chloramphenicol and Gentamicin Biplate/Dermatophyte Test Medium)

15x100mm biplate, 10/pack J107

Mueller Hinton Agar



SELENITE CYSTINE BROTH

For the selective enrichment of *Salmonella* spp. Cystine enhances growth of *Salmonella* spp.

16x125mm, 20/pack K69

THIO WITHOUT INDICATOR

For the cultivation of microorganisms.

16x125mm tube, 10ml, 20/pack K29

TRIPLE SUGAR IRON (TSI) AGAR SLANT

For the identification of Gram-negative bacilli.

13x100mm tube, 20/pack R32

UREA AGAR SLANT

(Christensen's Urea)

For the detection of urease production in bacteria.

16x100mm tube, 20/pack L65

REAGENTS AND SPOT TESTS



BACITRACIN, HARDYDISK™

For the differentiation of group A Strep *Streptococcus pyogenes*; not for sensitivity tests; for use with dispenser, Cat. no. 260457.
0.04 units each,
50 disks/cartridge

Z7021

CATALASE REAGENT

Hydrogen peroxide, 3%
15ml dropper bottle

Z62

COAGUSTAPH™

Rabbit plasma with EDTA, for the detection of coagulase enzyme in *Staphylococcus aureus*.
6x20ml

Z020

INDIA INK

For capsule staining of *Cryptococcus*.
15ml dropper bottle

Z64

INDOLE

DMACA spot reagent,
15ml (cinnamaldehyde)

Z65

NITRATE REAGENT A

Sulfanilic Acid, 15ml

Z71

NITRATE REAGENT B

Naphthylamine, 15ml

Z72

NITRATE REAGENT C

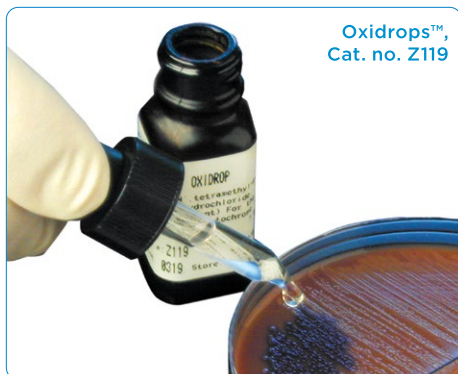
Zinc Dust, 15ml

Z73

OPTOCHIN, HARDYDISK™

Optochin, HardyDisk™, for the differentiation of alpha-hemolytic *Streptococcus pneumoniae*, for use with dispenser, Cat. no. 260457.
50 disks/cartridge

Z7011



Oxidrops™,
Cat. no. Z119

OXIDROPS™

Oxidase reagent drops for testing oxidase reaction.
7ml dropper bottle

Z119

OXISTRIPS™

Oxidase test, paper strips for testing the oxidase reaction.
25 paper strips/pack

Z93



POTASSIUM HYDROXIDE

KOH, 10%
15ml dropper bottle

Z77

PYR TEST KIT

A rapid test for group A strep and Enterococcus.

25 tests, with 5ml developer Z75
100 tests, with 20ml developer Z175

VOGES-PROSKAUER REAGENT A, NAPHTHOL

For use in determining the Voges-Proskauer (VP) reaction of bacteria.
15ml dropper bottle

Z91

VOGES-PROSKAUER REAGENT B

KOH, 40%
15ml dropper bottle

Z92



LATEX AGGLUTINATION



STAPHTEX™ BLUE KIT

Produces clear and reliable results when testing for *Staphylococcus aureus*. The plasma-coated blue latex beads create an easy to interpret read-out. Positives rapidly agglutinate the blue beads on a white background, while negatives remain consistently smooth. The StaphTEX™ kit tests for clumping factor and protein A found in *Staphylococcus aureus*. The entire procedure takes less than one minute. Liquid controls, test cards, and mixing sticks are included.

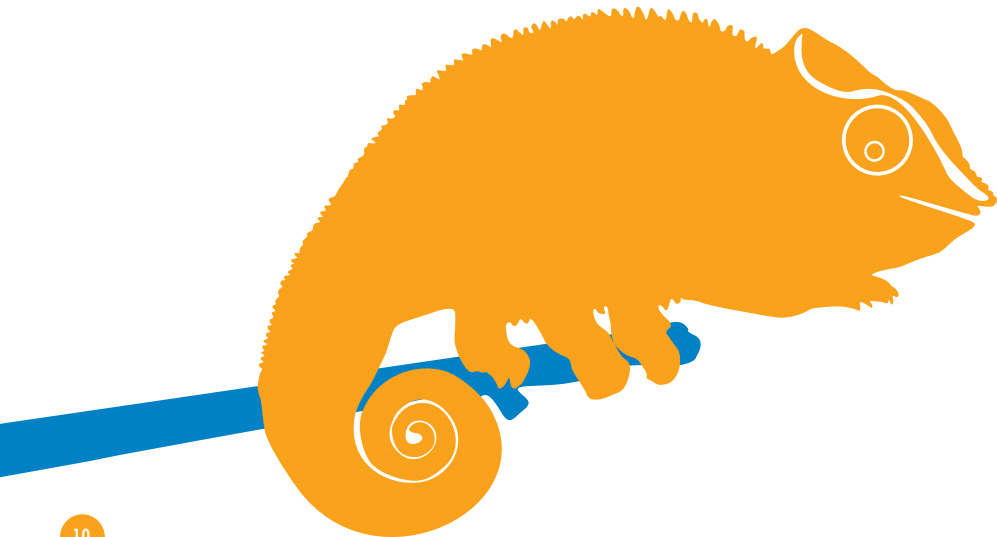
50 tests	ST50
200 tests	ST200



STREPPRO™ GROUPING KIT

A latex agglutination test for the rapid identification of beta-hemolytic streps includes groups A, B, C, D, F, and G. All reagents are liquid, ready-to-use, color-coded for ease of identification and simple to use. Compact container saves valuable refrigerator space. Positive and negative results are rapid, accurate, and easy to interpret. A complete procedure takes only 2 minutes. Kit contains reaction cards and mixing sticks.

60 tests PL030HD



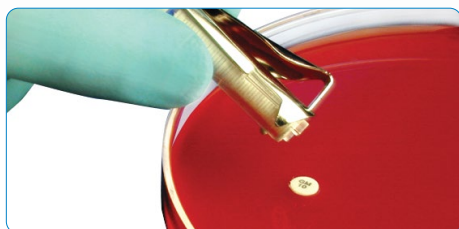


ANTIBIOTIC DISKS: HARDYDISK™ AST

NOW YOU HAVE A COMPETITIVE CHOICE!

Hardy Diagnostics offers an extensive selection of antibiotic sensitivity disks for the disk diffusion (Kirby-Bauer) test.

- A complete line of all commonly used antibiotics
- Spring-loaded in cartridges of 50 disks for smooth and reliable dispensing
- Available in single cartridges or packs of five
- Compatible with the BD BBL™ disk dispensers (6, 8, or 12-place)
- Can also be used with the metal single disk dispenser, Cat. no. 260457



AMIKACIN, AN-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8011

30µg, 50 disks/cartridge,
5 cartridges/canister Z8015

AMOXICILLIN/CLAVULANIC ACID, AUGMENTIN, AMC-30

20µg/10µg, 50 disks/cartridge,
1 cartridge/canister Z8021

20µg/10µg, 50 disks/cartridge,
5 cartridges/canister Z8025

AMPICILLIN/SULBACTAM, SAM-20

10µg/10µg, 50 disks/cartridge,
5 cartridges/canister Z8045

AMPICILLIN, AM-10

10µg, 50 disks/cartridge,
1 cartridge/canister Z8031

10µg, 50 disks/cartridge,
5 cartridges/canister Z8035

AZITHROMYCIN, AZM-15

15µg, 50 disks/cartridge,
1 cartridge/canister Z8051

BACITRACIN, B-10

10µg, 50 disks/cartridge,
1 cartridge/canister Z9271

CARBENICILLIN, CB-100

100µg, 50 disks/cartridge,
5 cartridges/canister Z8115

CEFACLOR, CEC-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8121

CEFAZOLIN, CZ-30

30µg, 50 disks/cartridge,
5 cartridges/canister Z8145

CEFOTAXIME, CTX-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8221

30µg, 50 disks/cartridge,
5 cartridges/canister Z8225

CEFOTETAN, CTT-30

30µg, 50 disks/cartridge,
5 cartridges/canister Z8235

CEFOXITIN, FOX-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8241

30µg, 50 disks/cartridge,
5 cartridges/canister Z8245

CEFTAZIDIME, CAZ-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8271

30µg, 50 disks/cartridge,
5 cartridges/canister Z8275

SUSCEPTIBILITY TESTING



CEFTAZIDIME/AVIBACTAM, CZA50

30µg/20µg, 50 disks/cartridge,
5 cartridges/canister Z9355

CEFTAZIDIME/AVIBACTAM, CZA50

30µg/20µg, 50 disks/cartridge,
1 cartridge/canister Z9351

CEFTAROLINE, CPT-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z9391

30µg, 50 disks/cartridge,
5 cartridges/canister Z9395

CEFTOLOZANE/TAZOBACTAM, C/T40

30µg/10µg, 50 disks/cartridge,
5 cartridges/canister Z9345

CEFTOLOZANE/TAZOBACTAM, C/T40

30µg/10µg, 50 disks/cartridge,
1 cartridge/canister Z9341

CEFTRIAXONE, CRO-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8311

30µg, 50 disks/cartridge,
5 cartridges/canister Z8315

CEFUROXIME, CXM-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8321

30µg, 50 disks/cartridge,
5 cartridges/canister Z8325

CEPHALOTHIN, CF-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8331

30µg, 50 disks/cartridge,
5 cartridges/canister Z8335

CHLORAMPHENICOL, C-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z8341

30µg, 50 disks/cartridge,
5 cartridges/canister Z8345

CIPROFLOXACIN, CIP-5

5µg, 50 disks/cartridge,
1 cartridge/canister Z8361

5µg, 50 disks/cartridge,
5 cartridges/canister Z8365

CLARITHROMYCIN, CLR-15

15µg, 50 disks/cartridge,
1 cartridge/canister Z8371

CLINDAMYCIN, CC-2

2µg, 50 disks/cartridge,
1 cartridge/canister Z8391

2µg, 50 disks/cartridge,
5 cartridges/canister Z8395

COLISTIN SULFATE, CT

10µg, 50 disks/cartridge,
1 cartridge/canister Z8411

DORIPENEM, DOR-10

10µg, 50 disks/cartridge,
1 cartridge/canister Z9371

DOXYCYCLINE, D-30

30µg, 50 disks/cartridge,
5 cartridges/canister Z8445

ERYTHROMYCIN, E-15

15µg, 50 disks/cartridge,
1 cartridge/canister Z8471

15µg, 50 disks/cartridge,
5 cartridges/canister Z8475

GENTAMICIN, GM-10

10µg, 50 disks/cartridge,
1 cartridge/canister Z8541

10µg, 50 disks/cartridge,
5 cartridges/canister Z8545

IMIPENEM, IPM-10

10µg, 50 disks/cartridge,
5 cartridges/canister Z8575

KANAMYCIN, K-30

30µg, 50 disks/cartridge,
5 cartridges/canister Z8605

LEVOFLOXACIN, LVX-5

5µg, 50 disks/cartridge,
1 cartridge/canister Z8611

5µg, 50 disks/cartridge,
5 cartridges/canister Z8615

NALIDIXIC ACID, NA-30

30µg, 50 disks/cartridge,
5 cartridges/canister Z8735

SUSCEPTIBILITY TESTING



NITROFURANTOIN, F/M-300

300µg, 50 disks/cartridge,
1 cartridge/canister Z8791

300µg, 50 disks/cartridge,
5 cartridges/canister Z8795

NORFLOXACIN, NOR-10

10µg, 50 disks/cartridge,
1 cartridge/pack Z8811

10µg, 50 disks/cartridge,
5 cartridges/canister Z8815

NOVOBIOCIN, NB-30

30µg, 50 disks/cartridge,
5 cartridges/canister Z8835

OFLOXACIN, OFX-5

5µg, 50 disks/cartridge,
1 cartridge/canister Z8841

OXACILLIN, OX-1

1µg, 50 disks/cartridge,
1 cartridge/canister Z8851

1µg, 50 disks/cartridge,
5 cartridges/canister Z8855

PENICILLIN, P-10

10µg, 50 disks/cartridge,
1 cartridge/canister Z8881

10µg, 50 disks/cartridge,
5 cartridges/canister Z8885

PIPERACILLIN, PIP-100

100µg, 50 disks/cartridge,
1 cartridge/canister Z8901

100µg, 50 disks/cartridge,
5 cartridges/canister Z8905

PIPERACILLIN/TAZOBACTAM TZP-110

100/10µg, 50 disks/cartridge,
5 cartridges/canister Z8915

STREPTOMYCIN, S-10

10µg, 50 disks/cartridge,
1 cartridge/canister Z8991

SULFAMETHOXAZOLE/

TRIMETHOPRIM, SXT

1.25/23.75µg, 50 disks/cartridge,
1 cartridge/canister Z9011

1.25/23.75µg, 50 disks/cartridge,
5 cartridges/canister Z9015

SULFISOXAZOLE, G-0.25

0.25mg, 50 disks/cartridge,
5 cartridges/canister Z9075

TELAVANCIN, TLV-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z9381

30µg, 50 disks/cartridge,
5 cartridges/canister Z9385

TETRACYCLINE, TE-30

30µg, 50 disks/cartridge,
1 cartridge/canister Z9121

30µg, 50 disks/cartridge,
5 cartridges/canister Z9125

TIGECYCLINE, TGC-15

15µg, 50 disks/cartridge,
1 cartridge/canister Z9361

TOBRAMYCIN, NN-10

10µg, 50 disks/cartridge,
1 cartridge/canister Z9171

10µg, 50 disks/cartridge,
5 cartridges/canister Z9175

TRIMETHOPRIM, TMP-5

5µg, 50 disks/cartridge,
1 cartridge/canister Z9181

VANCOMYCIN, VA-30

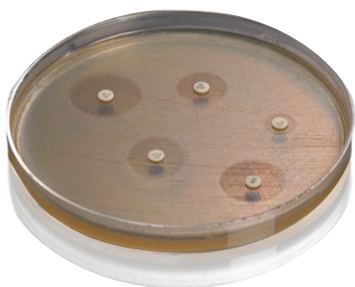
30µg, 50 disks/cartridge,
1 cartridge/canister Z9241

30µg, 50 disks/cartridge,
5 cartridges/canister Z9245

Visit Hardy Diagnostics website for a complete listing
www.HardyDiagnostics.com



SUSCEPTIBILITY TESTING



MUELLER HINTON AGAR

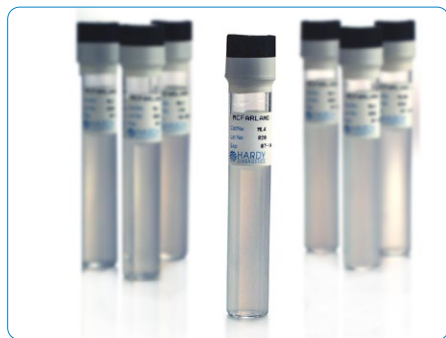
100mm plate,	G45
10 plates/pack	
150mm plate, 10 plates/package	H11

SALINE, 0.85%

5ml, 16x100mm tube	
20 tubes/pack	K59

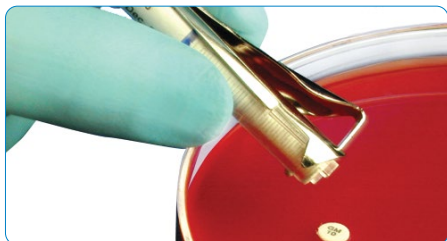
MC FARLAND STANDARD

#0.5 latex equivalent, turbidity standard
16x100mm tube, 8ml, each ML05



WICKERHAM CARD

For turbidity reading
2in x 3in, each Z08



DISPENSERS

Single, metal	260457
Multi-Dispenser	
6-place, self-tamping	260661
8-place, self-tamping	260660
12-place, self-tamping	260640

12-Place Dispenser



LOOPS, SPREADERS, & ACCESSORIES



BACTI-CINERATOR™ IV

Loop incinerator safely sterilizes loops and needles by infrared heat in ceramic tube; no open flame or hazardous gas. Prevent infectious spatter and/or cross contamination. Ideal for use in anaerobic chambers. Complete sterilization takes only five to seven seconds at optimum sterilizing temperature of 1500 °F. Base is weighted for stability and provides convenient storage for 6 needle holders.

Electric Bacti-Cinerator™ IV **004002**

Ceramic Heating

Replacement Element **001373**

SPREADERS

T-shaped, sterile, disposable spreaders are supplied sterile, no need to flame sterilize or autoclave.



T-Shaped Spreader, 1/pack,
500 per case

COPTS

T-Shaped Spreader, 10/pack,
500 per case

COPTS10

LOOP CADDY™

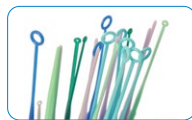
A convenient, all acrylic loop holder for use with the resealable new Hardy Diagnostics loop pouches: 8175CSR40H, 8177CSR40H, 178CSR40, and 179CSR40. Holds disposable loops for ready use.

Each

K24H

DISPOSABLE SPEEDSTREAKS™

Our line of disposable inoculating loops are available in several styles and color-coded for convenience. The 1µl and 10µl loop each come in two different styles, rigid (hard) or flexible (soft), to fit a variety of streaking preferences. Certificate of Calibration authenticates the accuracy of the loops.



1µl loop, calibrated, dark green, rigid,
25/pack, 1000/case **HS1R**

1µl loop, calibrated, light green, flexible,
25/pack, 1000/case **HS1F**

10µl loop, calibrated, dark blue, rigid,
25/pack, 1000/case **HS10R**

10µl loop, calibrated, light blue, flexible,
25/pack, 1000/case **HS10F**

Needle, violet, rigid,
25/pack, 1000 per case **HSND**



REUSABLE CALIBRATED NICHROME LOOP

Loops made only from high-grade nickel-chromium alloys, or pure platinum alloy, to ensure repeated, accurate usage.

1µl, 26 gauge, twisted nichrome wire with
aluminum handle, each **3730**

10µl, 26 gauge, twisted nichrome wire
with aluminum handle, each **3740**

HEMATOLOGY STAINER



QUICKSLIDE™
HEMAPRO

Cat. no.
QS-001



The HemaPRO™ stains a blood smear in as little as 60 seconds. It offers consistent performance that is not technician dependent.



FAST STAINING

Eliminate the mess!
The unit needs no daily maintenance and only requires a tubing change once or twice annually.



CLEAN, NO HASSLE

In addition to staining peripheral blood smears, the HemaPRO™ has a special program for the staining of bone marrow specimens.



VERSATILE

The HemaPRO™ is one of the smallest automated slide stainers available, requiring only one square foot of counter space!



SMALL FOOTPRINT

The durable and reliable HemaPRO™ has been delivering consistent stain quality to hematology labs for over fifteen years.



ROBUST

HEMAPRO™ TUBE KIT

Kit consists of labeled replacement tubing. Replacement should be performed every 6 months depending on use. Tubing can be installed in just 10 minutes.

Each

QS-002

HEMAPRO™ REAGENT KIT

A Wrights-Giemsa stain for use with the QuickSlide™ HemaPro automated hematology slide stainer. Extended Shelf Life of 1 year unopened. Special Formulated pack with color-coded tubing for ease of operation

Kit includes:

- Wright's-Giemsa Stain
- Buffer
- Rinse
- Reagent module

Produces 125 tests per pack in one self contained package

3/pk

QS-29000

GRAM STAINER

QUICKSLIDE™
GRAMPRO 1

Cat. no.
AGS-1000



Small Footprint

Small enough to fit any lab counter top; the GramPRO 1™ is fast and simple to use.

Perfect Slide Everytime

The GramPRO 1™ has a **patented decolorization** process that optically monitors the crystal violet run-off at a rate of 20 times per second resulting in a perfectly decolorized slide every time.



Results

Consistent results that are not technician dependent.



Software

GramPRO 1™ has on-screen programmed software notifications to replace a stain kit or perform preventive maintenance.



No Daily Maintenance

No daily cleaning since the instrument **automatically cleans** in-process. Periodic cleaning and maintenance is programmed with software notifications.



GRAMPRO 1™ REAGENT KIT

Extended shelf life of two years unopened. Special formulated, 110 tests per pack. Easy to read labels on tubing for ease of operation. Kit includes:

- Crystal Violet
- Grams Iodine
- Decolorizer
- Safranin

Produces 110 tests.

5 bottles **AGS-SK-2000**

PROBOND SLIDES*

Chemically treated and positively charged microscope slides for use with GramPRO 1 automated slide stainers.

**Not using PROBOND Slides with the GramPRO 1 voids product warrantee.*

72/pk

PB72

GRAMPRO 1™ SYSTEM CLEANER

Used on the GramPRO 1™ Scrub feature to be performed once a month or every 600 cycles. The product will clean the tubing cannulas, elbows, pump tubes, stainless fitting ports, and the photo optics windows on the cuvette. The product comes in a box with two 500mL bottles of cleaner. Each bottle will accommodate one scrub cycle.

500ml bottle,
2/pk

AGS-SC-4000

GRAMPRO 1™ TUBE KIT

The GramPRO 1™ requires a tube replacement every 1,100 cycles. Unit will prompt operator when tubes need to be changed. Replacement should be performed at least every six months depending on use and takes only 10-15 minutes.

Includes 8 tubes.

Each

AGS-TK-3000

STAINING SUPPLIES



GRAM STAIN ADVANCED™ KIT

Weak staining is a leading cause of misidentification of bacteria. Gram-positives will retain a deep blue stain, even those that are easily decolorized. Gram-negatives stain a vivid and distinct red. The combination provides a high degree of contrast for easy and reliable interpretation. When mixed on a slide, Gram-positives and negatives will be easier to distinguish due to an overall brighter stain.

4x250ml bottles **GK400A**

FECAL OCCULT BLOOD QUICKVUE® IFOB

Detects the presence of blood in stool specimens. Immunochemical technology virtually eliminates false positive results.

20 tests/kit **20194**



WRIGHT-GIEMSA STAIN

For blood smears or bone marrow, stains in only 15 seconds, then rinse with deionized water, produces brightest colors with unexcelled separation, no buffer step required as in traditional Wright's stain.

473ml bottle **SS016**



COPLIN JAR

For manual staining procedures. Jars are white plastic with a screw-on top to minimize evaporation.

These jars are for use in all staining procedures, with slots on top to eliminate slide contact. Holds 5 slides in upright position or 10 slides back to back. Spout Caps fit 38mm bottles, these spouts allow a spigot-like action for refilling smaller containers. White plastic,
Each **VCJ001**

TRICHROME STAIN STARTER KIT

Volu-Sol's Trichrome parasitology starter kit (Wheatley's Procedure) has everything you need to get going. This single, convenient package contains all the materials to prepare stained fecal smears. Contains 237ml each:

- Schaudinn's Fixative
- Ethanol 70%
- Gomori Trichrome Stain
- Acid Ethanol 90%
- Ethanol 95%
- Carbol Xylene
- Xylene

•10 reusable coplin jars. Additionally, Hardy sells a refill kit, Cat. no. VXR010, with all of the above listed items except the Coplin Jars.

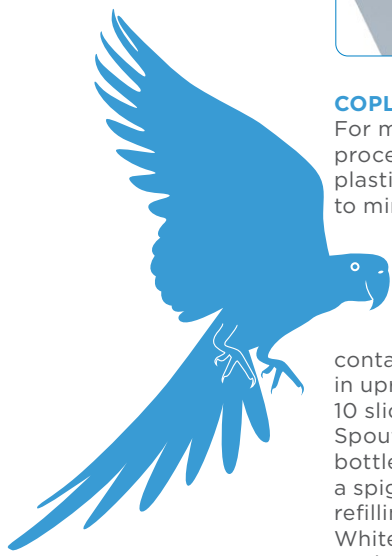
This is a controlled substance regulated by the DEA, call 800-266-2222 to order.

5x473ml **VXF019**

ACID-FAST BACTERIA STAIN

AFB stain kit (Ziehl Neelson) "Hot" method requires heating of the slide. Kit includes one 237ml bottle of each of the following:

- Carbol Fuchsin (Ziehl Neelson)
 - Acid Alcohol
 - Methylene Blue
- 3x237ml **484K**



STAIN CONTROL SLIDES



ERADA-STAIN™ STAIN REMOVER

This mild cream cleaner/stain remover is effective on most histological dyes, tinctures, general laboratory chemicals, and most other medical stains, including Wright Stain. Apply and rub gently onto hands for a short time and rinse with water. Cream is biodegradable and phosphate-free; can also be used to clean plastic, glassware, and laboratory equipment.



CRYPTOSPORIDIUM QC SLIDE

Mycobacterium and *Cryptosporidium*; Acid fast staining controls. By Microbiologics.
10 per box

SL4010

Q-SLIDE™ GRAM

A prepared slide for QC of the Gram stain, contains *E. coli* and *Staphylococcus aureus* controls. It will test both your stain solutions and your staining techniques. Positive and negative stain control organisms are affixed to the circles in each Q-Slide™. Up to four patient specimens (in the squares) may be processed at the same time as the QC organisms.
5 slides/box.

Z302



SLIDE STAINING RACK

This stainless steel staining rack is designed for use across laboratory sinks of various sizes. Triangular slide supporting rods have a tapered top and contact the slides only in a narrow zone. Rack is simply and quickly adjustable to fit sinks up to 53.4 centimeters (21 inches) inside dimensions.
24 inches wide

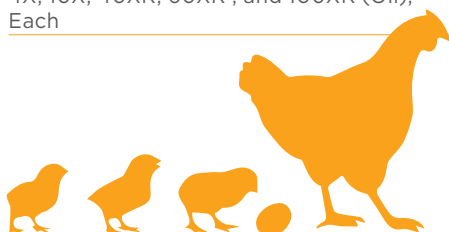
15153821

MICROSCOPE

BINOCULAR IMMERSION MICROSCOPE

For lab use in today's clinical and research settings. Provides five objectives and interchangeable condenser system which applies to bright field, phase contrast, dark field and polarized light techniques. Lower position of mechanical stage knob offers comfort for extended use. By C&A Scientific.
4X, 10X, 40XR, 60XR, and 100XR (Oil),
Each

MRP5000





MICROSCOPE SUPPLIES

PROSLIDE™ MICROSCOPE SLIDES

Guaranteed non-stick slides are ideally suited for hematology differential smears, pathology tissue mounting, and all general microscopy. Slides are manufactured from the highest purity corrosion-resistant, clear sheet glass. Fully annealed to minimize chipping, with edges that are precision ground for smoothness. 3x1 inch x 1mm, 72/box: Frosted, premium **PF72P**

COVER GLASS

High quality borosilicate cover glass is non-corrosive and anti-fog. Devoid of scratches, bubbles and striations, its flatness provides a uniform, distortion-free surface. A desiccant is included so moisture will not degrade the cover glass. Convenient plastic storage container allows for easy stacking on the shelf. 30ml cover glass/box:

18x18mm	1818HD
22x22mm	2222HD

LENS PAPER

Lint-free, for cleaning microscope lens. 4x6 inches:

50 sheets/pack, 12 packs	52846001
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BIBULOUS PAPER

Non-linting, slide blotting paper.

50 sheets/book. 12 books	28511007
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MICROSCOPE LENS CLEANER

A safe and effective microscope lens cleaning solution in a dropper bottle. 30ml **Z97**



IMMERSION OILS

Used to assist in microscopic examination at high power (1,000 X lens) by increasing the resolving power.

Type A, low viscosity:

118ml	Z85
20ml (with glass applicator)	Z95

Type B, high viscosity:

118ml	Z86
20ml (with glass applicator)	Z96



SLIDE MAILER, CARDBOARD

Solid cardboard holds slides for transport, with or without cover glass. Thumb groove for easy removal; cut corners identifies tip of mailer.

Holds 1 slide, 2000/case	MSL01
Holds 2 slides, 1000/case	MSL02

PARASITOLOGY / DIAGNOSTIC TESTS



PARA-TECT™ GIARDIA ANTIGEN DETECTION

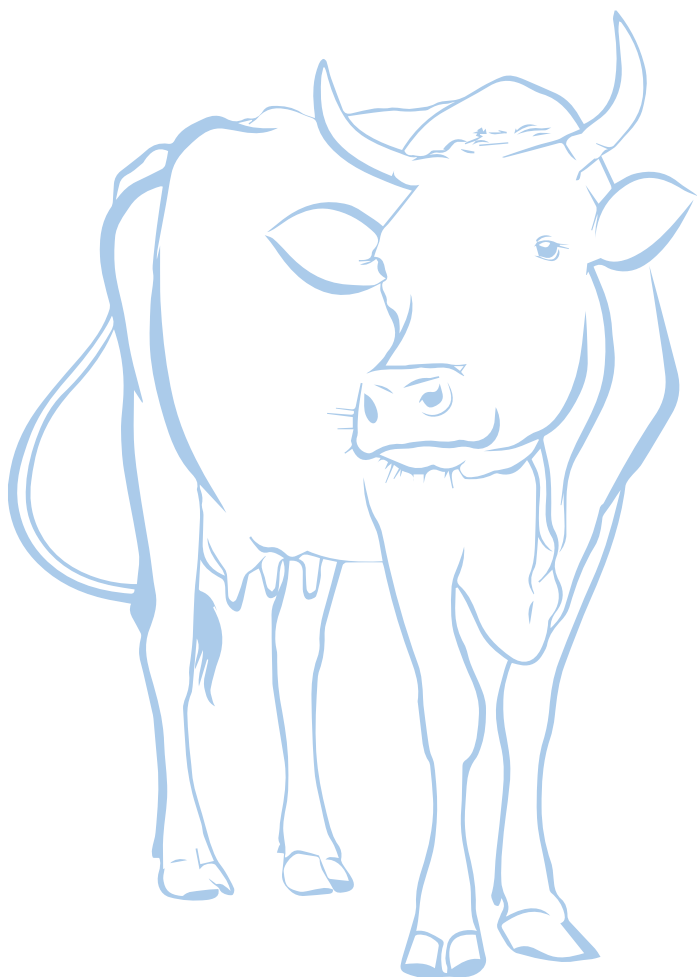
This direct fluorescent assay (DFA) is an *in vitro* immunoassay for the qualitative determination of *Cryptosporidium* and *Giardia* oocysts and cysts in feces. Can be used with stools preserved in:

- 10% formalin
- SAF
- or MCC's Universal Fixative.

Results available in 60 minutes.

75 tests.

MCCCG75



BACTERIAL TRANSPORT



OPTI-SWAB 1ML LIQUID AMIES TRANSPORT MEDIUM WITH 6" STERILE SWAB

- Ready-to-use Transport System
- Advanced kit design is easy to use and reliable
- Patented HydraFlock swab with molded breakpoint
- Leak-proof self-centering cap for patient comfort
- Premium medical grade plastic components to improve product shelf life
- 18 month shelf life from date of manufacture

MINI-TIP FLOCK SWAB

Designed to accommodate eye, ear, urogenital, and pediatric sampling sites.

Each LA116

ULTRAFINE FLOCK SWAB

Designed to accommodate nasopharyngeal sampling.

Each LA117

ELONGATED FLOCK SWAB

Designed to accommodate nose, throat, vaginal, rectal, and wound sampling.

Each LA106



INCUBATOR & THERMOMETER



EXACT-TEMP™ THERMOMETERS

The thermometer probe stays inside the refrigerator while the digital display stays outside- no need to open the door! Temperature probe remains in plastic bottle with insulating liquid. Thermometer is traceable to National Institute of Standards and Technology (NIST) with certificate.

- Min/Max alarm settings with nine foot sensor cable
- Choose between Celsius and Fahrenheit, ranging from -50 °C to 70 °C (-58 °F to 158 °F)
- Accurate up to ± 0.6 °C for precise measurements
- Resolution: 0.1 °C. Display size is 1.75 x .75 inches for easy viewing
- Powered by one AAA battery (included)

Each R80301



INCUBATOR

Overall dimensions are 13"x14"x16-1/4", weighs 19 pounds, temperature range, ambient +5 °C to 60 °C. Accommodates a maximum of 4 shelves. An inexpensive incubator for school laboratories and can be used as a backup incubator for hospitals. The incubator is made of cold rolled steel and has a see-through acrylic door. Supplied with two adjustable shelves and a spirit filled thermometer.

Weight: 19 lbs

132000



GLOVES



MIRACLE® GLOVES ★★★★★

Nitrile, Powder Free, Thin Gauge



MIRACLE® Gloves are thin gauge, light weight, powder free nitrile exam glove.

Gloves are a soft and flexible material that provide an excellent fit with superb tactile sensitivity. They are 100% latex free, eliminating potential risk of rubber latex sensitivities.



200 GLOVES PER BOX SAVES SPACE!

Finger and Palm .05mm,
2000 gloves (10x200/box):

Extra Small, 200/bx	MIR160
Small, 200/bx	MIR162
Medium, 200/bx	MIR165
Large, 200/bx	MIR166
Extra Large, 180/bx	MIR168

BIOHAZARD BAGS



BIOHAZARD BAG

For the collection of biohazard waste, not for autoclaving. These bags are made of polyethylene and feature black biohazard warnings in English and Spanish. The bags are also labeled with the international biohazard symbol, meet OSHA requirements, and pass the 165gm dart impact test.

Red, 23x23 inches, 1.5mil thickness,
Polyethylene, 500/box **BB116**

Red, 23x23 inches, 1.2mil thickness,
Polyethylene, 500/box **BB201**

Red, 24x32 inches, 1.2mil thickness,
Polyethylene, 250/box **BB2192**

Red, 25x35 inches, 2.25mil thickness,
Polyethylene, 200/box **BB2305**



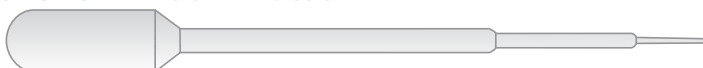
PIPETS & TEST TUBES



MINI-TIP

CATALOG NO.	STERILITY	PACKAGING INFORMATION	UNIT	TECHNICAL DATA
134020	NON-STERILE	400 PCS/DISPENSER BOX, 8 BX/CS	3200	• CAPACITY: 1.5ML
134020400	NON-STERILE	400 PCS/DISPENSER BOX	400	• TOTAL LENGTH: 104MM (4.1") • DROPS/ML: 50 • BULB DRAW: 1.5ML • STEM DIAMETER: 4.5MM (0.18") • TIP DIAMETER: 0.9MM (0.04)

5ML CAPACITY - EXTENDED TIP - LARGE BULB



FINE-TIP

CATALOG NO.	STERILITY	PACKAGING INFORMATION	UNIT	TECHNICAL DATA
134070	NON-STERILE	250 PCS/DISPENSER BOX, 8 BX/CS	2000	• CAPACITY: 5ML
134070250	NON-STERILE	250 PCS/DISPENSER BOX	250	• DROPS/ML: 50 • BULB DRAW: 3.2ML • STEM DIAMETER: 4.6MM (0.18") • TIP DIAMETER: 0.85MM (0.03) • TOTAL LENGTH: 153MM (6.0")

5.8ML CAPACITY

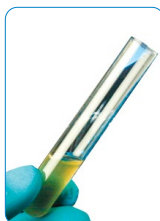


GENERAL PURPOSE

CATALOG NO.	STERILITY	PACKAGING INFORMATION	UNIT	TECHNICAL DATA
134060	NON-STERILE	500 PCS/DISPENSER BOX, 10 BX/CS	5000	• CAPACITY: 5.8ML
134060500	NON-STERILE	500 PCS/DISPENSER BOX	500	• DROPS/ML: 25 • BULB DRAW: 2ML • TIP DIAMETER: 2.5MM (0.1) • TOTAL LENGTH: 130MM (5.1") • STEM DIAMETER: 6.6MM (0.26")

CULTURE TUBE TEST TUBES

- Disposable borosilicate glass culture
- Chemically clean and well suited for general use in blood banks, hematology, chemistry and all areas of the laboratory
- Manufactured in compliance with strict specifications
- Consistent size, weight, and properly rounded bottoms



Borosilicate glass, round bottom:

10x75mm, 1000/box	735001075
12x75mm, 1000/box	735001275
13x100mm, 1000/box	7350013100
15x85mm, 1000/box	735001585
16x100mm, 1000/box	7350016100
16x125mm, 1000/box	7350016125
16x150mm, 1000/box	7350016150

CAPILLARY TUBE

Heparinized for hematocrits.
Red tip, 1.1mm inside diameter;
75mm long,
200/vial

2501

CENTRIFUGE TUBE, GENERAL PURPOSE

- Non-toxic and chemically inert to biological fluids and most acids
- Can be heat sealed to use for liquid storage or transport, with a temperature range of -196 °C to 90 °C
- Pipets can be frozen in liquid nitrogen
- Produced from a custom grade of low-density polyethylene (LDPE) for non-slip surface.
- Easy-grip with gloves
- Custom packaging
- Can be gas (EtO) sterilized

15ml polypropylene, molded graduations,
with screw cap:

250/bag, 1000/case 6261



AUTOCLAVE SUPPLIES



AUTOCLAVE BAGS

Made of tough, thick polypropylene with double-seamed bottom. This bag has black biohazard warnings in English and Spanish, and is rated to withstand heat up to 300°F. Heat indicator strip turns black when exposed to steam. OSHA-approved labeling.

8x12 inches, 2mil thickness
400/case **AB5819**

12x24 inches, 2mil thickness
500/case **AB5010**

14x19 inches, 2mil thickness
500/case **AB5012**

19x24 inches, 2mil thickness
200/case **AB5013**

25x30 inches, 1.75mil thickness
200/case **AB5026**

25x35 inches, 2mil thickness
200/case **AB5237**

FRESHCLAVE™ AUTOCLAVE DEODORANT

This is a simple and convenient method for eliminating the unpleasant odors associated with disposing laboratory waste. It is presented in a soft gelatin capsule containing concentrated liquid fragrance that melts in the heat of the autoclave cycles, providing a comfortable work environment. One bead is able to deodorize up to 10 cubic feet.

100 beads/bottle:

Lemon scented

FC605



SWABS & APPLICATORS

TRANSPORTER SWAB

Ideal for specimen collection from urethra, ear, eye, or nasopharyngeal area. Aluminum wire shaft is flexible with a miniature rayon tip. No media. Individually wrapped and sterile.

50/box **25800R50**

AMIES TRANSPORT MEDIA

Plastic shaft with a rayon tip, single swab. For use when specimens cannot be immediately plated.

50/box **4108BX**

AMIES GEL WITH CHARCOAL

Plastic shaft with a rayon tip, single swab. Recommended for fastidious organisms.

50/box **4114BX**



Cat. no. 4114BX

COTTON SWABS, STERILE

Cotton tipped swab, wood shaft is 6 inches long.

100/box **HD258061WC**

Cat. no. HD258061WC



TONGUE DEPRESSORS

Smooth, splinter-free tongue depressors made from Northern White Birch.

Individually wrapped, sterile.

100/box **25705**



LABORATORY ATTIRE



Free samples of ComfortPRO™ Disposable Lab Coats are available.

COMFORTPRO™ DISPOSABLE LAB COATS

These affordable, disposable lab coats are made of tri-laminated material.

- Coats are fully breathable and splash resistant.
- Our lab coats feature snap front buttons, knit cuffs, and knit collars for added comfort.
- Three pockets are also featured, one on the chest and one at each hip.
- Color Option: white or blue. Available in five sizes.

Blue, 30/case:

Medium	NEGU6073M
Large	NEGU6073L
XLarge	NEGU6073XL

FACE SHIELD

A lightweight and comfortable face shield that is optically clear, has anti-fog properties, fits over glasses, has a foam headband, and is disposable/reusable.

Designed to protect the user's face from splattered blood and other bodily fluids, when used properly.

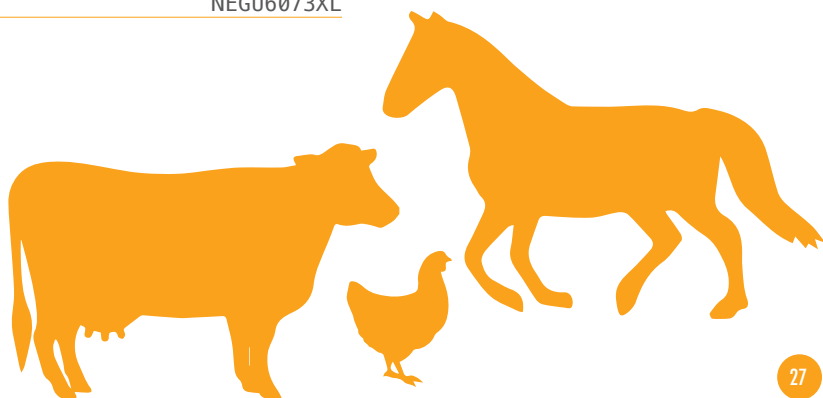
Short Shield for face, 24 per box 4511



ISOLATION MASK WITH EAR LOOPS

Latex-free mask with convenient ear loops sonically welded to the outside of the mask. Soft, cool, and breathable. Meets the ASTM F200-01 testing requirements of submicron filtration above 98%.

500/case 15100





DISINFECTANTS & CLEANERS

ALPET D2

SS1000312



CaviCide™ Disinfectant

131000

131008



Discide™ 10DIS



ALPET D2

A rapid-kill, quick drying, no rinse, surface sanitizer spray that is approved for food contact surfaces. This isopropyl alcohol and quarternary ammonium compound eliminates 99% of detectable pathogens. 1L bottle, 12/pk

SS1000312

CAVICIDE™ DISINFECTANT

This best broad spectrum disinfectant contains quarternary ammonium and 17% alcohol with detergent and is recommended for benchtop cleaning and disinfection. Non-toxic.

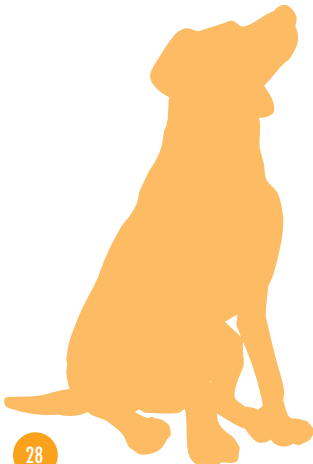
59ml travel size	131002
237ml spray bottle	131008
One gallon	131000

DISCIDE® TOWELETTES

A new generation quaternary disinfectant that is bactericidal, virucidal, tuberculocidal, and fungicidal. EPA registered patented formula can be used in veterinary practices. Biodegradable detergent safely cleans surfaces and eliminates the need for a precleaner. No dilution needed. Contains no phenolics, glutaraldehydes, sodium, hypochlorites or bleach. Active ingredients:

- Alkyldimethylbenzyl ammonium chloride
- Ethylbenzyl ammonium chloride.

10.5x10.5 inches,	
60/pop-up jar	10DIS
6x7 inches,	
160/pop-up jar	60DIS



HAND SANITIZERS



AloeSafe™ AS16HD

AS4HD



AS2HD



Smart San™

JPP10007

SMA0016U



ALOESAFE™ HAND SANITIZER GEL

This alcohol gel with *Aloe vera*, vitamin E, and lavender will not dry hands, keeps skin soft, and conforms to CDC guidelines for hand sanitizers.

- Does not contain propylene glycol, sticky glycerin or estrogenic parabens
 - Kills 99.9% of bacteria
- | | |
|-------------------|--------|
| 59ml pocket size | AS2HD |
| 118ml travel size | AS4HD |
| 473ml pump bottle | AS16HD |

ALOESOOTHE™ MOISTURIZING LOTION

The perfect moisturizing lotion for any healthcare professional. It is a unique blend of lanolin, *Aloe vera*, dimethicone, and other ingredients that help seal out harsh irritants, while allowing the body's natural healing process to occur. It also helps prevent chapping and irritation caused by frequent hand washing and the use of latex gloves. This lotion is ethanol based with emollients to keep hands soft; is fragrance free and rated to kill 99.9% of bacteria. Required pump is sold separately.

Spigot (pump) KT10011

SMART SAN™ - HAND SANITIZER SPRAY

This ethanol-based spray with emollients keeps hands soft. Fragrance free, rated to kill 99.99% of Gram-negative and positive bacteria. Requires pump, sold separately.

Six/One liter bottles	SMA0016U
Pump	JPP10007

- ✓ No sticky glycerin
- ✓ No toxic dyes!
- ✓ No Estrogenic Parabens!
- ✓ No Propylene Glycol!



1430 West McCoy Lane
Santa Maria, CA 93455
800.266.2222
HardyDiagnostics.com
Sales@HardyDiagnostics.com



VETERINARY MICROBIOLOGY