

Tuberculosis Microbiology



HARDY
DIAGNOSTICS
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Tuberculosis Microbiology

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Springboro, Ohio
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Albany, New York
Raleigh, North Carolina



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



FM 572526



SELECTION

Since 1980, Hardy Diagnostics has grown to manufacture an extensive selection of prepared media products which are packaged in plates, tubes, bottles, bags, and flasks.



GUARANTEED DATING

We provide at least one month of shelf life on most products.



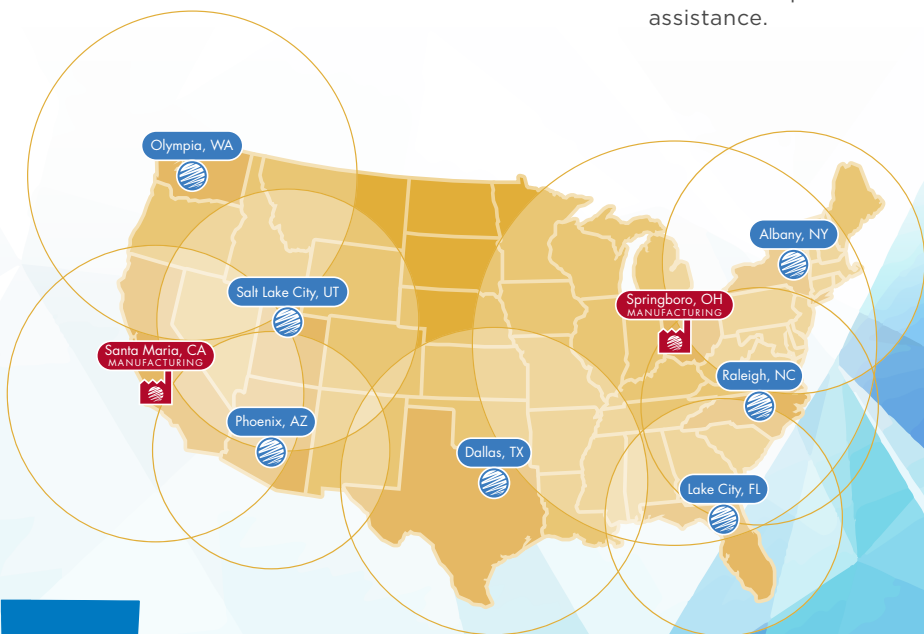
QUALITY CONTROL PROGRAM

Hardy products go through rigorous and extensive QC testing. Lot specific Certificates of Analysis are available at HardyDiagnostics.com.



TECHNICAL ASSISTANCE

Instructions for Use (IFU) are available for all products through our web catalog. Experienced Medical Technologists and microbiologists are available for personalized assistance.



Online Ordering

Media for the Cultivation and Identification of Tuberculosis

Arylsulfatase Broth

For use in detecting arylsulfatase production in rapidly growing *Mycobacteria* spp.

0.001M, 2ml, 16x125mm tube,
20pk.....K93

0.003M, 2ml, 16x125mm tube,
20pk.....K94

Carbon Utilization

For the differentiation of *Mycobacterium* spp.

Carbon Utilization Base, Slant,
20x125mm tube, 20pk.....Y125

Carbon Utilization with Inositol, Slant,
20x125mm tube, 20pk.....Y126

Carbon Utilization with Mannitol, Slant,
20x125mm tube, 20pk.....Y127

Carbon Utilization with Citrate, Slant,
20x125mm tube, 20pk.....Y128

Lowenstein Jensen

Egg based media for use in the cultivation and isolation of *Mycobacterium* spp.

Deep Fill, 5ml, 20x150mm
polycarbonate tube, 20pk.....C27

Slant, 5ml, 20x125mm
polycarbonate tube, 20pk.....C21

HardyFlask™, 20pk.....X22

Bovine Serum Albumin

Enhances the growth of *Mycobacteria* spp.

Tube, 3ml, 13x100mm polycarbonate tube,
20/bx Z81

Lowenstein Jensen - Gruft Modification

Slant, 5ml,
20x125mm glass tube, 20pk.....C23

HardyFlask™, 20pk.....X23

Lowenstein Jensen with Pyruvate

Slant, 5ml,
20x125mm polycarbonate tube, 20pk.....C28

HardyFlask™, 20pk.....X19

Lowenstein Jensen - Selective

Addition of cycloheximide, lincomycin, and nalidixic acid.

Slant, 5ml,
20x125mm polycarbonate tube, 20pk.....C25

Lowenstein Jensen with Sodium Chloride

Slant, 5ml,
20x125mm polycarbonate tube, 20pk.....C29

Lowenstein Jensen with Ferric Ammonium Citrate

HardyFlask™, 20pk.....X21





Middlebrook 7H9

Recommended for use in the cultivation of *Mycobacterium* spp. from sterile fluids.

Middlebrook 7H9 with Tween® 80,
5ml, 16x125mm polycarbonate tube,
20pk.....C62

Middlebrook 7H9 Broth,
10ml, 16x125mm polycarbonate tube,
20pk.....C32

Middlebrook 7H10

Agar based media for the isolation and cultivation of *Mycobacterium* spp.

Middlebrook 7H10,
Deep fill, 26ml, 15x100mm plate,
10pk.....W30

Slant, 20x125mm tube,
20pk.....C34

HardyFlask™, 20pk.....X26

Middlebrook 7H10 with 10% Human Blood,
10ml, 20x125mm polycarbonate tube,
20pk.....C42



Media for the Cultivation and Identification of Tuberculosis

Middlebrook 7H11

Recommended for use in the cultivation and isolation of *Mycobacterium* spp.

Middlebrook 7H11

Deep fill, 28ml, 15x100mm plate,
10pk W35

HardyFlask™, 20pkX25

Space Saver Plate, 10x100mm,
15pk..... SP57

Slant, 20x125mm polycarbonate tube,
20pk C36

Middlebrook 7H11 Selective

Deep fill, 15x100mm plate,
10/pk W40

Slant, 20x125mm polycarbonate tube,
20/pkC38

HardyFlask™, 20/pkX28

Middlebrook 7H11/Middlebrook 7H11
Selective, Biplate, 15x100mm, 10/pk..... J75

Middlebrook ADC Supplement

Bottle, 20ml fill, 60ml bottle,
10/pkX95

Middlebrook OADC

Bottle, 100ml fill, 180ml bottle,
each U98

Nitrate Substrate Broth

For the determination of nitrate reactions of *Mycobacteria* spp. Use with AFB nitrate reagents (Cat. nos. Z124 and Z125).

Tube, 2ml, 13x100mm tube,
20/pkR97

Pyrazinamidase Agar

For the differentiation of *Mycobacteria* spp. by pyrazinamidase activity.

Tube, 5ml, 16x125mm tube,
20/pk K158

Wallenstein

Recommended for use in the cultivation and isolation of mycobacteria other than tuberculosis. It is particularly useful in the recovery of *Mycobacteria avium* complex.

Slant, 20x125mm tube,
20/pkC61



Reagents and Disks

Caffeic Acid Disks

A rapid test to detect the ability of an organism to produce the enzyme phenyloxidase; useful for the identification of *Cryptococcus neoformans* and *Cryptococcus gattii*.

25 disks/pk..... Z118

Nitrate Reagents

Recommended for use in the determination of nitrate utilization by *Mycobacterium* spp.

AFB Nitrate Reagent A (Sulfanilamide, 0.2%)
15ml..... Z124

AFB Nitrate Reagent B
(Naphthylethylenediamine Dihydrochloride, 0.1%)
15ml..... Z125

Tween® 80, 10% Solution

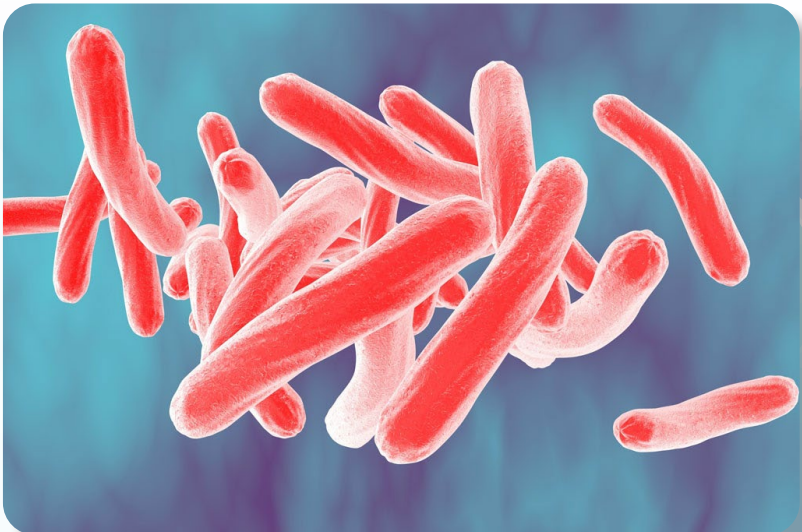
A 10% solution of Tween® 80. For use with hydrogen peroxide in the semiquantitative catalase test for AFB.

15ml..... Z101

Urea Disks

Used to detect urease activity demonstrated by certain *Mycobacterium* species and by *Helicobacter pylori*. Urea is a diamide of carbonic acid that is hydrolyzed by the enzyme, urease, to release ammonia as an end product.

25 per vial DU7525



Staining and Slide Preparation

AFB Stain Kit

Carbol Fuchsin (Kinyoun), Acid Alcohol 3%, Methylene Blue Counterstain.

3x8 oz AF900

Acid-Fast Smear Fix

For BACTEC™ blood cultures, for better slide adhesion of specimens,

15ml Z56

Acid Alcohol, 3% HCl in Alcohol

For AFB staining, Kinyoun or Ziehl-Neelsen.

250ml AA008

AFB Brilliant Green Stain Kit

Contains Carbol Fuchsin (Kinyoun), Acid Alcohol 3%, Brilliant Green Counterstain.

3x8 oz 483KB

Carbol Fuchsin (Kinyoun)

250ml CF008

Methylene Blue Counterstain

For Acid-Fast stain procedures and other uses. An aqueous solution of methylene blue.

16 oz 675A16

Methanol

32 oz VMT032

1 gallon 107B128

BlueMount™

A permanent slide mount for mycology specimens that contains the stain lactophenol cotton blue. Produces a long lasting permanently stained slide. Contains polyvinyl alcohol (PVA) that will dry and set up hard. Creates a perfectly preserved slide.

15ml vial Z137

Lactophenol Cotton Blue

For staining fungi on slide wet mounts.

15ml vial Z68

Potassium Hydroxide

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

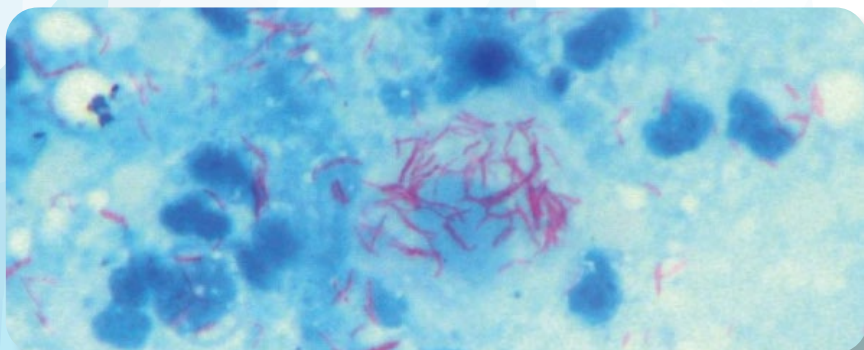
10%, KOH, 15ml vial Z77

20%, KOH, 15ml vial Z78

India Ink

For use in the identification of *Cryptococcus neoformans* by detection of the polysaccharide capsule. India ink is a negative stain that will show a clear zone where the capsule is.

15ml bottle Z64



Direct Specimen Staining Fluorescent Method



AFB Fluorescent Stain Set (Auramine O)

Auramine O stain kit includes one 250ml bottle of each of the following: auramine O fluorescent stain, decolorizer and potassium/permanganate.

3x250ml..... 418K

Auramine Fluorescent Stain

An aqueous solution of phenol and auramine O Stain.

250ml..... 418D8

Auramine-Rhodamine Stain

An aqueous solution of phenol, glycerine, isopropyl alcohol, rhodamine B and auramine O.

250ml..... 789D8

32 oz..... 789D32

3x250ml..... 630K

Potassium Permanganate (0.55%)

An aqueous solution of potassium permanganate.

250ml..... PPC18



AFB Fluorescent Stain Set



Control Slides

Q-Slides™ AFB Control Slides

For easy QC of your stain and staining technique!

Used to test both the stain reagents and user technique. Can be used for Kinyoun, Ziehl-Neelsen, and fluorescent AFB stain methods. Slides are prepared and fixed with a known AFB positive and negative organism. There is also space for four test specimens.

- A convenient, easy to-use-format.
- Good dispersion of cells that stain deeply with excellent contrast.
- Large number of cells per viewing area at 1000X.
- Large area for patient specimens contained by hydrophobic lines.
- Plastic container protects and allows for easy manipulation of slides.
- White labeling area for patient identification.

5 slides per box.....Z301



Digestion and Decontamination Reagents

TB Prep Kit Red™

A ready-to-use specimen preparation kit for the processing of sputum specimens for mycobacteria testing. The kit contains five 50ml TB Based Digestants (red), five ready-to-use NALC reagents, and detailed instructions for their use. The components of the kit comply with the CLSI guidelines. A pH indicator is used to ensure that the proper pH is maintained throughout the decontamination procedure. Turns clear when final proper pH is achieved.

5 tests/kitZ158



TB Prep Kit Red™ contains a pH indicator for greater accuracy.

Phosphate Buffer

Bottle, 30ml, 2 oz polypropylene bottle,
25/bxX31

Bottle, 40ml, 2 oz polypropylene bottle,
25/bxX43

Bottle, 500ml, 500ml polycarbonate
bottle, Each U10



Digestion and Decontamination Reagents

Sputum digestion and decontamination reagents are used to break down mucous components of sputum and other clinical specimens and to decontaminate the specimen of normal flora in order to culture slower growing mycobacteria.

N-Acetyl-L-Cysteine (NALC)

Tube, 2.5gm, 16x100mm,
20/bx Z161

Tube, 250mg (prepares 50ml), 16x100mm,
20/bx Z60

TB Base Digestant

Bottle, 50ml, 2 oz polyethylene bottle,
25/bx X45

Bottle, 100ml, 125ml polyethylene bottle,
12/bx U22

Bottle, 500ml, 500ml polypropylene bottle,
each U20

MucoGest™

MucoGest™ is composed of dithiothreitol, a mucolytic agent recommended for use in the digestion and decontamination procedures for sputum and other clinical specimens for the recovery of *Mycobacteria* spp. and fungi. Use MucoGest™ with TB Based Digestant (Cat. no. X45) for TB.

MucoGest™ 50, 0.25 gm (to make 50ml of solution), 20/pk.....Z130

MucoGest™ 100, 0.50 gm (to make 100ml of solution), 20/pk.....Z131



Lab Supplies

Gloves

Adenna MIRACLE Gloves, nitrile, powder free, thin gauge exam, blue, extra-small, 2000/pk.....MIR160

Adenna MIRACLE Gloves, nitrile, powder free, thin gauge exam, blue, small, 2000/pk.....MIR162

Adenna MIRACLE Gloves, nitrile, powder free, thin gauge exam, blue, medium, 2000/pk.....MIR165

Adenna MIRACLE Gloves, nitrile, powder free, thin gauge exam, blue, large, 2000/pk.....MIR160



Masks

Mask, Isolation, with ear loops, blue, 500/pk.....FEL110B

Mask, Isolation, with ear loops, yellow, 500/pk.....15100

ComfortPRO™ Lab Coats

Lab coat, 3 pockets, Blue, small, 20/pk.....CP20S

Lab coat, 3 pockets, Blue, medium, 20/pk.....CP20M

Lab coat, 3 pockets, Blue, Large 20/pk.....CP20L

Lab coat, 3 pockets, Blue, extra-Large 20/pk.....CP20XL

Lab coat, 3 pockets, Blue, Double extra large, 20/pk.....CP20XXL



Notes

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