Tuberculosis Microbiology

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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 Insolitol, 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

**Hardy Flask**, 20pk .................................................. X25

**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/pk .................................................. C38

**Hardy Flask**, 20/pk .................................................. X28

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

**Middlebrook ADC Supplement**
Bottle, 20ml fill, 60ml bottle, 10/pk .................................................. X95

**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/pk .................................................. R97

**Nitrate Assimilation, Modified**
Modified Nitrate Assimilation Agar is recommended for use in determining nitrate assimilation for the identification of yeast and mold.

**Tube**, 6ml fill, 16x125mm tube, 20/pk .................................................. L95

**Pyrazinamide Agar**
For the differentiation of Mycobacteria spp. by pyrazinamide activity.

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

**Wallenstein**
Recommen d 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/pk .................................................. C61

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Reagents and Disks

**Caffeic Acid Disks**
A rapid test to detect the ability of an organism to produce the enzyme phenylmethylaspartic acid; 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** (Naphthylthiophenylcarboxamide, 0.1%) 15ml .................................................. Z125

**TB Niacin Test Strips**
For differentiation of Mycobacterium spp., based on niacin production.

25 strips/pk .................................................. R21090

**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 diamine of carbonic acid that is hydrolyzed by the enzyme, urease, to release ammonia as an end product.

25 per vial .................................................. DU7525

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HardyDiagnostics.com
Sales@Hardydiagnostics.com
800.266.2222
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

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Direct Specimen Staining Fluorescent Method

**AFB Fluorescent Stain Set (Auromine 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

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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/kit............................................Z158

Phosphate Buffer

Bottle, 30ml, 2 oz polypropylene bottle, 25/bx..............................................X31

Bottle, 40ml, 2 oz polypropylene bottle, 25/bx..............................................X43

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

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