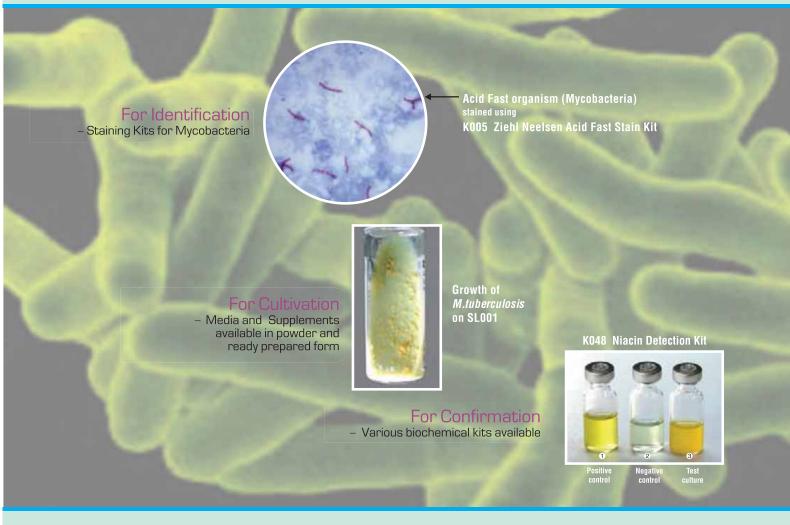
HiMedia's

Complete range of products for

Tuberculosis Diagnosis



Fast, Economical, Easy, Reliable and Confirmatory
In world's most cost effective manner







Tuberculosis Diagnosis

uberculosis has been a phenomenal foe to mankind and has taken its toll on human life over several centuries. Being the most common cause of death world over due to a single infectious agent in adults, tuberculosis accounts for over a quarter of all avoidable deaths globally.

The resurgence of tuberculosis as the "twin-disaster" of co-infection with the Human Immunodeficiency Virus (HIV) and the occurrence of the multi-drug resistant tuberculosis is demanding for focused attention of the clinicians, society and the health administrators.

Clinical microbiology laboratories can play an important role in the control of the spread of tuberculosis through the timely detection, isolation, identification and drug susceptibility testing of *Mycobacterium tuberculosis*.

HiMedia offers the varied range of products required for the complete diagonosis of tuberculosis, right from specimen collection containers upto drug sensitivity testing and confirmative Biochemical Test Kits.

The prepared, ready to use L. J. Media Slants, support confirmed growth of *Mycobacterium tuberculosis* bacteria after incubation. Thus helping in early diagnosis and treatment of Tuberculosis. HiMedia's L.J. Media Slants is "THE" test to be done if clinician is suspecting a positive case of TB.

Complete comprehensive Product range

for isolation, cultivation and biochemical identification of *M. tuberculosis*

- Sample Collection
- Sample Processing, Sputum Digestion
- Enriching Sample with Growth and Selective supplements
- Cultivating and Isolating Mycobacteria on Selective Media (In Powder form & Prepared form)
- Ready Prepared L. J. Medium slants, plain & with antibiotics for Drug Susceptibility Testing
- Staining Kits for Diagnosis of Mycobacteria
- Biochemical Identification Kit for Confirmation of Mycobacteria

For Sample Collection and processing

Sterile specimen collectors available are

- PW015 Sterile Clinicol
- PW1130 Sterile Container
- PW1179 Sterile Multipurpose Clinical Sample Collector
- PW047 Multipurpose Clinical Sterile Container



PW047
Multipurpose
Clinical Sample
Collector, PP.
Autoclavable, graduated,
capacity 100 ml, having spoon
attachment for urine, stool,
sputum or pus sample
collection



PW015 Sterile Clinicol For collection of sputum samples.

For working with pathogenic cultures - Disposable Plastic HiFlexiLoops



Disposable Plastic FlexiLoops For working with *M. tuberculosis* Culture

PW012S* Sterilized flexible loop, 2.2 mm diameter, calibrated to 0.005ml, individually sealed

PW013/ HiFlexiLoop 4

PW013S* Sterilized flexible loop, 4.4 mm diameter, calibrated to 0.01ml, individually sealed

PW014/ HiFlexiLoop-S

PW014S* Sterilized flexible loop, straight for stab inoculation, individually sealed

PW051/ HiFlexiLoop Plus-2

PW051S* Sterilized flexible loop with streaker/stabber tip, size :1.25mm diameter, calibrated to 1µl

PW052/ StabiFlexiLoop Plus-2

PW052S* Sterilized flexible calibrated loop with streaker/ stabber tip, size : 2.2 mm diameter, calibrated to 0.005 ml

PW053/ StabiFlexiLoop Plus-4

 $PW053S^{\bigstar} \ \ \text{Sterilized flexible calibrated loop with streaker/ stabber tip, size} : 4.4 \ \text{mm diameter, calibrated to } 0.01 \ \text{ml}$

Lab Accessories

Microslide M1 20± 1mm area frosted



Plain & Frosted

Code	Microslide	Thickness
GW050	Standard Plain	1.0 mm
GW051	Standard Plain	1.2 mm
GW052	Standard Plain	1.35±0.05 mm
GW053	M1	1.0 mm
GW054	M1	1.2 mm
GW056	M1	1 35±0 05 mm

PW143 Centrifuge Tube



With Screw Cap, PP Autoclavable, graduated, overflowing capacity: 50ml.

Maximum RCF valve: 5000g

PW144 Centrifuge Tube



With Screw Cap, PP Autoclavable, graduated, overflowing capacity: 15ml.

Maximum RCF valve: 6000g

PW012/ HiFlexiLoop 2

^{* &#}x27;Economical pack' - 100 loops packed in Steripack container.

For Sputum Sample processing

Reagents for Sputum Digestion and Decontamination



FD173 / FD173B Mycoprep

A combination liquefaction and decontamination mixture, containing : NALC (N-acetyl L-cysteine alkali digestant) 2% Sodium hydroxide-citrate and phosphate buffer. Eliminates contaminating bacteria and digests sputum.



FD118 Mucasol

For optimal recovery of mycobacteria from clinical specimens, releasing mycobacteria trapped in mucin and cells due to sputum liquefying action of DTT (dithiothreitol).

For Enrichment, Cultivation and Isolation

Using selective media (in powder form and prepared form) along with growth and selective supplements

M067	Dubos Broth Base For preparation of liquid medium for rapid cultivation of pure cultures of <i>M. tuberculosis</i> and related	M198	Middlebrook 7H9 Broth Base For cultivation and sensitivity testing of M. tuberculosis	
	microorganism	FD019*	Middlebrook ADC Growth Supplement	
FD201*	Albumin Glucose Supplement	M199	Middlebrook 7H10 Agar Base	
MV067	Dubos HiVeg [™] Broth Base For preparation of liquid medium for rapid cultivation of pure cultures of <i>M. tuberculosis and related</i>	FD018*	For isolation, cultivation and sensitivity testing of M. tuberculosis Middlebrook OADC Growth Supplement	
	microorganisms	M196	Middlebrook 7H10 Agar Base, Special	
FD201*	-		For isolation, cultivation and sensitivity testing of <i>M. tuberculosis</i>	
M179	Dubos Oleic Agar Base	FD018*	Middlebrook OADC Growth Supplement	
	For cultivation of <i>M. tuberculosis</i>	M511	Middlebrook 7H11 Agar Base	
FD020*	Oleic Albumin Supplement		For isolation, cultivation and sensitivity testing of Mycobacteria	
MV179	Dubos HiVeg™ Broth Base	FD018*	Middlebrook OADC Growth Supplement	
ED000*	For cultivation of <i>M. tuberculosis</i>	MV511	Middlebrook 7H11 HiVeg [™] Agar Base	
FD020*	Oleic Albumin Supplement	_	For isolation, cultivation and sensitivity testing of Mycobacteria	
M839	Dubos Oleic Broth Base For cultivation of <i>M. tuberculosis</i>	FD018*	Middlebrook OADC Growth Supplement	
D020*	Oleic Albumin Supplement	M511A	Middlebrook 7H11 Agar Base w/o Malachite Green For isolation, cultivation and determination of antimicrobial susceptibility of <i>Mycobacteria</i>	
MV839	Dubos Oleic HiVeg™ Broth Base For cultivation of <i>M. tuberculosis</i>	FD018*	Middlebrook OADC Growth Supplement	
FD020*	Oleic Albumin Supplement	M867	Peizer TB Medium Base	
W247	IUT Medium Base	WOO7	For cultivation of <i>M. tuberculosis</i>	
VIZ 17	For cultivation of <i>M. tuberculosis</i>	M100	TB Broth Base	
M161	Kirchner Medium Base, Modified		For cultivation of <i>M. tuberculosis</i>	
	For cultivation of <i>M. tuberculosis</i>	MV100	TB HiVeg [™] Broth Base	
RM1239	** Horse Serum		For cultivation of <i>M. tuberculosis</i>	
M162	Lowenstein Jensen Medium Base (L.J. Medium) It is an egg-based medium, supporting good growth of Mycobacteria, specially M. tuberculosis	M034	TB Broth Base w/o Tween 80 For cultivation of <i>M. tuberculosis</i> when the presence of oleic acid is undesirable	
FD053*	Gruft Mycobacterial Supplement	MV034	TB HiVeg [™] Broth Base w/o Tween 80	
M1542			For cultivation of <i>M. tuberculosis</i> when the presence of oleic acid is undesirable	
	For drug resistance testing of <i>Mycobacteria</i> as recommended by WHO	MAGEO	·	
W197	Middlebrook 7H9 Agar Base For isolation, cultivation and sensitivity testing	M1059	Wayne Sulphatase Agar Base For biochemical differentiation of <i>Mycobacteria</i> on the their ability to produce arylsulphatase.	
FD018*	of <i>M. tuberculosis</i> Middlebrook OADC Growth Supplement	M1697	Proskauer Beck Medium	

FD260* Penta Mix

An antibiotic mixture recommended to add in media to reduce contamination of other organisms from suspected tuberculosis positive clinical samples prior to inoculation. If desired can be added to M198 (Middlebrook 7H9 Broth Base).



FD260 Penta Mix; Contains Polymyxin B, Amphotericin B, Nalidixic acid, Trimethoprim & Azolectin

Ready Prepared Media

L.J. Medium Slants* with and without antibiotics

SL001 L.J. Medium Slant

SL001T L.J. Medium Slant in Thick Glass bottles for cultivation of *Mycobacterium tuberculosis*

SL022 L.J. Medium Slant w/o Glycerol for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL066 L.J. Medium Slant w/ Capreomycin (20 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL067 L.J. Medium Slant w/ Capreomycin (40 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL017 L.J. Medium Slant w/ D-Cycloserine (30 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL070 L.J. Medium Slant w/ D-Cycloserine (40 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL081 L.J. Medium Slant w/ Kanamycin (20 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL082 L.J. Medium Slant w/ Kanamycin (30 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL049 L.J. Medium Slant w/ Ofloxacin (2 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL091 L.J. Medium Slant w/ p-Aminosalicyclic acid (0.25 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL092 L.J. Medium Slant w/ p-Aminosalicyclic acid (0.5 µg/ml) for cultivation of *Mycobacterium tuberculosis* and resistance testing

SL021 L.J. Medium Slant w/ p-Nitrobenzoic acid (500 µg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance teting.

SL008 Acid Egg Medium Slant for cultivation of Mycobacterium tuberculosis

SL025 Dorset Egg Medium Slant

for growth Mycobacterium tuberculosis

SL023 Tuberculosis First Line Kit (Total 7 slants)
Kit containing five antitubercular drugs (Isoniazide,
Streptomycin, Ethambutol, Rifampicin, Pyrazinamide) + 2 controls

SL023LTuberculosis First Line Kit (Total 7 slants)
Kit containing five antitubercular drugs (Isoniazide,
Streptomycin, Ethambutol, Rifampicin, Pyrazinamide) + 2 controls

SL024 Tuberculosis Second Line Kit (Total 10 slants)
Kit containing eight antitubercular drugs (Kanamycin, Amikacin,
Ethionamide, D Cycloserine, Clarithromycin, Ciprofloxacin,
p-Amino salicylic acid, Rifabutin) + 2 controls

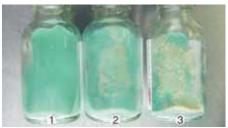
SL024LTuberculosis Second Line Kit (Total 10 slants)
Kit containing eight antitubercular drugs (Kanamycin, Amikacin,
Ethionamide, D Cycloserine, Clarithromycin, Ciprofloxacin,
p-Amino salicylic acid, Rifabutin) + 2 controls

K050 Kit of Selective Isolation of M. tuberculosis (*Sufficient for 5 tests) recommended for selective isolation of M. tuberculosis from clinical samples Kit contents:

Part A : SL001 Lowenstein Jensen Medium 5 nos Part B : LQ105 Krichner medium base (4ml) 5 nos Part C : FD241 Poctri supplement 5 vls.,

(Containing Polymyxin B, Amphotericin B, Carbenicillin & Trimethoprim)

SL001 L.J. Medium Slant



Note : Concentrations marked in red are as per WHO recommendation

On request kit of assorted antibiotic slants as per requirement can be provided.

SL001L - The medium is proved in long tubes (165 mm x 16 mm)

MT001 Modified Middle brook 7H9 Broth w/Indicator

Growth can be visualized as early as 6 days and on an average of 10-14 days in most of the cases. **Reagent is supplied as single unit ready to use two component system.**

- 1. Middle brook 7H9 Broth base.
- 2. Modified Selective Enrichment (Lyophilized)

Interpretation of results: Magenta pink colored granular deposition is indication of growth. To be confirmed by microscopy and other tests.



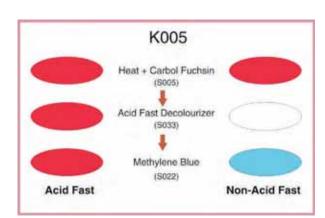
1. Positive Test 2. Control

Staining Kits for Diagnosis of Mycobacteria

Stains for Acid Fast Staining# ZN Acid Fast Stains - Kit (contains S033,S005 and S022) K005-1KT 1kt Acid Fast Decolourizer S033-125ML 125ml Carbol Fuchsin (ZN, Strong) S005-125ML 125ml S022-125ML Methylene Blue (Loeffler's) 125ml ZN Acid Fast Stains - Kit (contains S033, S005 & S022) 1kt K005L-1KT Acid Fast Decolourizer S033-500ML 500ml Carbol Fuchsin (ZN,Strong) S005-500ML 500ml Methylene Blue (Loeffler's) S022-500ML 500ml



K005 ZN Acid Fast Stains - Kit

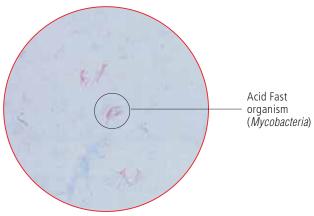


Stains for Mycobacteria Staining#

Fluorescent Stains - Kit for Mycobacteria						
(contains S042, S043 and S044)	K021-1KT	1kt				
Phenolic auramine	S042-125ML	125ml				
Mycobacteria decolourizer	S043-125ML	125ml				
Potassium permanganate	S044-125ML	125ml				
Fluorescent Stains - Kit						
for Mycobacteria						
(contains S042, S043 and S044)	K021L-1KT	1kt				
Phenolic auramine	S042-500ML	500ml				
Mycobacteria decolourizer	S043-500ML	500ml				
Potassium permanganate	S044-500ML	500ml				
HiCold Stain TB - Kit						
for Mycobacteria (Kit contains Carbol						
Fuchsin Solution-S080,						
Decolourizer-S099, Counter Stain						
(Loeffler's Methylene Blue)-S081)	K062S-1KT	1kt1				
HiCold Stain TB - Kit for Mycobacteria						
(Kit contains Carbol Fuchsin Solution	-S080,					
Decolourizer-S099, Counter Stain						
(Loeffler's Methylene Blue)-S081)	K062-1KT	1kt				

for Mycobacteria
(Kit contains Auramine – Rhodamine solution (Phenol free)-S082,
Decolourizer-S099, Potassium
Permanganate Solution-S083) K061-1KT 1kt

Also Stains are available in powder form



K005 Ziehl Neelsen Acid Fast Stain Kit

Biochemical Identification Kit for Confirmation of Mycobacteria

Biochemical Test Kits

To study Biochemical characteristics used in making Definitive Identification

- A Confirmatory Biochemical Kit
- Onventional Biochemical Tests for detecting Mycobacteria
- Convenient to use
- Economical alternative, simple and ready to use

K043-KT* Nitrate Reduction Test Kit for *Mycobacteria* (For 10 tests) To study the ability of *Mycobacteria* to reduce nitrite.

Kit contains:

- a. R056, Nitrate buffer in glass tube for Mycobacteria 10 nos.
- b. R060, Nitrate Reagent for Mycobacteria 1 no.

K044-KT* Catalase Test Kit for Mycobacteria (For 5 tests)

To study catalase activity of *Mycobacteria*.

Kit contains

- a. SL122, HiCatalase glass tubes w/ 5ml of L.J. Medium 5 nos.
- b. R057, Catalase buffer 0.5 ml. (for heat stable catalase study) 5 nos.
- c. R058, Part A: H₂O₂ (30%) 5 ml. Part B: Tween 80 (10%) 5 ml

K045-KT* Pyrazinamidase Test Kit for *Mycobacteria* (For 10 tests)

To study pyrazinamidase activity of Mycobacteria.

Kit contains :

- a. SL121, HiPyrazide glass tube w/ PYZ agar 10 nos
- b. R059, PYZ reagent 10 ml -1 no.

K046-KT* Thiophene Caboxylic Hydrazide Test Kit for Mycobacteria (For 10 tests)

To study the inhibition of Mycobacteria growth by Thiophene-2-Carboxylic Hydrazide, for the differentiation between *M. tuberculosis* and *M. bovis*.

Kit contains :

a. Ready prepared quadrant media plate MP511;
 Middlebrook 7H10/7H11 Agar w/TCH - 10nos.

In Quadrant I : 0 mcg/ml Quadrat II : 1 mcg/ml Quadrant III : 5 mcg/ml Quadrant IV : uninoculated control quadrant.

K047-KT* Niacin Detection Kit w/Syringe

To study the accumulation of niacin for differentiation of *Mycobacterium* species especially *Mycobacterium tuberculosis* / for (presumptive) identification of *Mycobacterium tuberculosis*. Kit contains :1. Part A : Reagent (1ml) : 10 vials 2. Part B : Reagent (1ml) : 10 vials 3. R055 : Reagent P (4ml) : 1 vial 4. Sterile syringe (1ml capacity) : 2 nos

K048-KT* Niacin Detection Kit Modified w/o Syringe

To study the accumulation of niacin for differentiation of *Mycobacterium* species especially *Mycobacterium tuberculosis* / for (presumptive) identification of *Mycobacterium tuberculosis*. Kit contains :1. Part A : Reagent (1ml) : 10 vials 2. Part B : Reagent (1ml) : 10 vials 3. R055 : Reagent P (4ml) : 1 vial

K043 Nitrate Reduction Test Kit



1. Control 2. Positive Test

K044 Catalase



M. tuberculosis H 37rv Catalase Test Kit

K045 Pyrazinamidase Test Kit



1. Control 2. Positive Test

K048 Niacin Detection Kit



Positive control

e control Negative control

Test culture

K046 Thiophene-2- Carboxylic Hydrazide Test Kit



Thiophene Carboxylic Hydrazide Test Kit

Innovation begins with the right choices



HIMEDIA®
Tuberculosis Diagnosis





