Complete range of products for

Tuberculosis Diagnosis

Fast,

Economical,

Easy,

Reliable

and

Confirmatory

In world's most cost effective manner

HiMediaLaboratories™
himedialabs.com

HIMEDIA®
For Life is Precious

Tuberculosis Diagnosis

Tuberculosis 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 dealths 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 susceptiility testing of *Mycobacterium tuberculosis*.

HiMedia offers the varied range of products required for the complete diagnosis 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 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*
- Lyophlized Culture from Microbilogics, USA

Tuberculosis Diagnostics

Complete range of products for Tuberculosis Diagnosis involving processing steps

Sample Collection

Sample Processing (Sputum digestion)
Enrichment of Sample (Growth & Selective supplements)

Cultivation & Isolation
(Selective Media) (In Powder, Granulated & Prepared form)

Drug susceptibility testing
(L.J.Medium slants with antibiotics)

Biochemical Identification Kits for confirmation of Mycobacteria & Staining methods for Presumptive Diagnosis

For Sputum Sample processing

Reagents for Sputum Digestion and Decontamination

*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).

*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.

*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

For Enrichment, Cultivation and Isolation

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

Dehydrated Culture Media w/ supplements wherever required

M553	Antibiotic Assay Medium G For microbiological assay of Bleomycin sulphate using *Mycobacterium smegmatis*, as a test organism
ME553	Antibiotic Assay Medium G For the microbiological assay of Bleomycin using *Mycobacterium smegmatis*, as a test organism in accordance with EP
M553B	Antibiotic Assay Medium G For the microbiological assay of Bleomycin using *Mycobacterium smegmatis*, as a test organism in accordance with BP
M797	Antibiotic Assay Medium No. 34 For preparation of suspension of *Mycobacterium smegmatis* used as the test organism for the assay of Bleomycin
MU797	Antibiotic Assay Medium No. 34 Used as a suspending medium for *Mycobacterium smegmatis*, which is used as a test organism in the microbiological assay of Bleomycin in accordance with USP
M798	Antibiotic Assay Medium No. 35 For microbiological assay of Bleomycin using *Mycobacterium smegmatis*
MV798	Antibiotic HiVeg™ Assay Medium No. 35 For usage refer M798
MU798	Antibiotic Assay Medium No. 35 For the microbiological assay of Bleomycin using *Mycobacterium smegmatis*, as a test organism in accordance with USP
MM798	Antibiotic Assay Medium I Used for the microbiological assay of Bleomycin using *Mycobacterium smegmatis*, as a test organism in accordance with IP
MM1276	Dilute Sautans Medium (Twin Pack) For cultivation and enumeration of Mycobacteria, in accordance with IP
M067	Dubos Broth Base For preparation of liquid medium for rapid cultivation of pure cultures of *Mycobacterium tuberculosis* and related microorganisms
FD201*	Albumin Glucose Supplement
MV067	Dubos HiVeg™ Broth Base For usage, supplement refer M067
M179	Dubos Oleic Agar Base For cultivation of *Mycobacteria*
FD020*	Oleic Albumin Supplement
MV179	Dubos HiVeg™ Broth Base For usage & supplement refer M179
M839	Dubos Oleic Broth Base For cultivation of *Mycobacteria*
FD020*	Oleic Albumin Supplement
MV839	Dubos Oleic HiVeg™ Broth Base For usage, supplement refer M839
M247	IUT Medium Base For cultivation of *Mycobacterium tuberculosis*
M161	Kirchner Medium Base, Modified For cultivation of *Mycobacterium tuberculosis*
M162	Lowenstein Jensen Medium Base (L.J. Medium) For isolation and cultivation of *Mycobacterium species*
FD053*	Gruft Mycobacterial Supplement
GM162	Lowenstein Jensen Medium Base, Granulated (L.J. Medium, Granulated) For usage & supplement refer M162
MM162	Lowenstein-Jensen Medium (L.J. Medium) (Twin Pack) In accordance with IP for isolation and cultivation of *Mycobacterium species*
FD053*	Gruft Mycobacterial Supplement
M2032	L.J. Medium Modified Used for the isolation of *Mycobacterium species* from mixed flora
FD338*	LCN Supplement
M1542	Lowenstein Jensen Medium Base w/o Starch For drug resistance testing of Mycobacteria in accordance with WHO.
M197	Middlebrook 7H9 Agar Base For isolation, cultivation and sensitivity testing of *Mycobacterium tuberculosis*.
FD018*	Middlebrook OADC Growth Supplement
FD348*	OADS Supplement

On receipt all the above products to be stored at 10-30°C
*On receipt, store between 2-8°C

M198	Middlebrook 7H9 Broth Base For cultivation and sensitivity testing of *Mycobacterium tuberculosis*.
FD019*	Middlebrook ADC Growth Supplement
M199	Middlebrook 7H10 Agar Base For isolation, cultivation and sensitivity testing of *Mycobacterium tuberculosis*.
FD018*	Middlebrook OADC Growth Supplement
FD348*	OADS Supplement
M196	Middlebrook 7H10 Agar Base, Special For isolation, cultivation and sensitivity testing of *Mycobacterium tuberculosis*.
FD018*	Middlebrook OADC Growth Supplement
FD348*	OADS Supplement
M511	Middlebrook 7H11 Agar Base For isolation, cultivation and sensitivity testing of *Mycobacteria*.
FD018*	Middlebrook OADC Growth Supplement
FD348*	OADS Supplement
MV511	Middlebrook 7H11 HiVeg™ Agar Base For usage, supplement refer M511
M511A	Middlebrook 7H11 Agar Base w/o Malachite Green For isolation, cultivation and determination of antimicrobial susceptibility of *Mycobacteria*.
FD018*	Middlebrook OADC Growth Supplement
FD348*	OADS Supplement

M867	Peizer TB Medium Base for cultivation of *Mycobacterium tuberculosis*.
M1276	Sauton's Fluid Medium Base For cultivation and enumeration of *Mycobacteria*, in accordance with IP.
M100	TB Broth Base For cultivation of *Mycobacterium tuberculosis*
MV100	TB HiVeg™ Broth Base For usage refer M100
M034	TB Broth Base w/o Tween 80 For cultivation of Mycobacteria when the presence of oleic acid is undesirable.
MV034	TB HiVeg™ Broth Base w/o Tween 80 For usage refer M034
M1059	Wayne Sulphatase Agar Base For bio chemical differentiation of Mycobacteria on the basis of their ability to produce aryl sulphatase.

Ready Prepared Media*

L.J. Medium Slants with and without antibiotics

MT001	Modified Middlebrook 7H9 Broth with Indicator for cultivation of *Mycobacterium tuberculosis*.
SL001	L.J. Medium Slant for cultivation of *Mycobacterium tuberculosis*.
SL001T	L.J. Medium Slant in thick glass bottles for cultivation of *Mycobacterium tuberculosis*.
SL179	L.J. Slopes for BCG Vaccines for enumeration of BCG vaccines as per IP chapter 2.2.5.
SL022	L.J. Medium Slant w/o Glycerol for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL167	L.J. Medium slants w/ Augmentin (20 µg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.

SL067L	L.J Medium Slant w/ Capreomycin (40 µg/ml) (long tube) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL017	L.J.Medium Slant w/ D - Cycloserine (30 µg/ml) (long tube) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL169L	L.J.Medium Slant w/ Ethionamide (20 µg/ml) (long tube) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL170L	L.J Medium Slant w/ Ethionamide (40 µg/ml) (long tube) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.

On recept all the above products to be stored between 10-30°C
*On receipt store between 2-8°C. Concentration marked in red are as per WHO recommendation.
On request kit of assorted antibiotic slant as per requirement can be provided SL000L* The medium is provided in long tubes (165mm X 16mm)

SL081	L.J. Medium Slant w/ Kanamycin (20 µg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL082	L.J. Medium Slant w/ Kanamycin (30 µg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL187	L.J.Medium slants w/ LCN Supplement for selective cultivation of *Mycobacterium tuberculosis*.
SL188L	L.J.Medium Slant w/ Levofloxacin (2mcg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL189L	L.J.Medium Slant w/ Moxifloxacin (2.5mcg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL049	L.J. Medium Slant w/ Ofloxacin (2 µg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL049L	L.J Medium Slant w/ Ofloxacin (2µg/ml) (long tube) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL168L	L.J.Medium Slant w/ Ofloxacin (40 µg/ml) (long tube) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL091	L.J. Medium Slant w/ p-Aminosalicyclic acid (0.25 µg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL171L	L.J Medium Slant w/ p-Amino salicylic acid (1 µg/ml) (long tube) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.

SL021	L.J. Medium Slant w/ p-Nitrobenzoic acid (500 µg/ml) for cultivation of *Mycobacterium tuberculosis* and for resistance testing.
SL008	Acid Egg Medium Slant for cultivation of *Mycobacterium tuberculosis*.
SL009	Acid Egg Medium Slant w/ pyruvate for cultivation of *Mycobacterium tuberculosis*.
SL025	Dorset Egg Medium Slant for growth of *Mycobacterium tuberculosis*.
SL023	Tuberculosis First Line Kit (Total 7 slants) containing five antitubercular agent (Isoniazide, Streptomycin, Ethambutol, Rifampicin, Pyrazinamide) + 2 controls.
SL023L	Tuberculosis First Line Kit (Total 7 slants) for usage refer SL023
SL177	Tuberculosis First Line Kit, Modified (Total 5 slants) containing four antitubercular agents (Isoniazide, Streptomycin, Ethambutol and Rifampicin) + control
SL024	Tuberculosis Second Line Kit (Total 10 slants) containing eight antitubercular agent (Kanamycin, Amikacin, Ethionamide, D-Cycloserine,Clarithromycin, Ciprofloxacin, p-Amino salicylic acid, Rifabutin) + 2 controls
SL024L	Tuberculosis Second Line Kit (Total 10 slants) for usage refer SL024

Ready Prepared Liquid Medium in Tubes

LQ105 FD241	Kirchner Medium Base for cultivation of *Mycobacterium tuberculosis* Poctri supplement (Containing Polymyxin B, Amphotericin B, Carbenicillin & Trimethoprim for LQ105)

Ready Prepared Transport Medium with Swabs*

MS198S	HiCulture™ Transport Swab w/ Middlebrook 7H9 Broth w/metal stick for transportation of *Mycobacterium tuberculosis*

Ready Prepared Liquid Medium in Glass bottles

LQ246CCL	Sautons Fluid Medium, Dilute for cultivation and enumeration of Mycobacteria in accordance with IP.

On recept all the above products to be stored between 2-8°C
*On recept, store at 5-25°C. Concentration marked in red are as per WHO recommendation.
On request kit of assorted antibiotic slant as per requirement can be provided SL000L* The medium is provided in long tubes (165mm X 16mm)

Ready Prepared Biochemical Test Kits for Mycobacteria

K050 Kit for Selective Isolation of *M. tuberculosis* (sufficient for 5 tests)
recommended for selective isolation of *M. tuberculosis* from suspected clinical samples.
Kit Contents:
Part A : SL001 Lowenstein Jensen Medium 5 nos
Part B : LQ105 Kirchner medium base (4 ml) 5 nos.
Part C : FD241 Poctri supplement 5 vls.
(Containing Polymyxin B, Amphotericin B, Carbenicillin & Trimethoprim.)

K043 Nitrate Reduction Test Kit for Mycobacteria
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 Catalase Test Kit for Mycobacteria
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 0.5ml (for heat stable catalase study) - 5 nos.
c) R058, Part A : H_2O_2 (30%) - 5 ml & Part B : Tween 80 (10%) - 5 ml

K045 Pyrazinamidase Test Kit for Mycobacteria (contains SL121 & R059)
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 Thiophene Carboxylic Hydrazide Test Kit for Mycobacteria (contains MP511)
to study the inhibition of Mycobacterial growth by Thiophene-2-Carboxylic Hydrazide, for the differentiation between *M. tuberculosis* and M. bovis.
Kit contains :
a) a ready prepared quadrant media plate MP511; Middlebrook 7H10 / 7H11 Agar w/TCH - 10 nos. In
Quadrant I : Positive control (without antibiotic)
Quadrant II : 1 mcg/ml
Quadrant III : 5 mcg/ml
Quadrant IV : Negative control (without antibiotic, uninoculated).

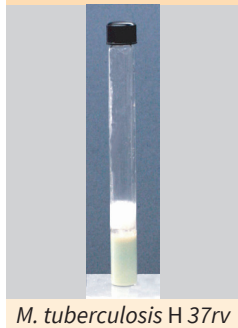
K047 Niacin Detection Kit w/ Syringe
to study the accumulation of niacin for differentiation of *Mycobacterium* species especially *Mycobacterium tuberculosis* / for (presumptive) identification of *Mycobacterium tuberculosis*.
Kit contains :
1. Part A : Reagent (1ml) : 10 vials
2. Part B : Reagent (1ml) : 10 vials
3. R055 : Reagent P (4ml) : 1 vial
4. Sterile syringe (1ml capacity) : 2 nos

K048 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 Test Kit

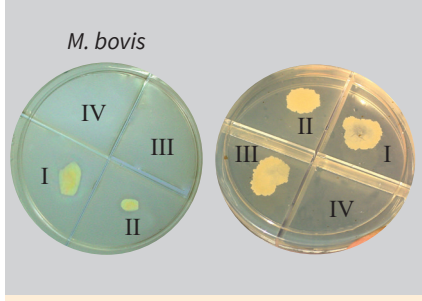


M. tuberculosis H *37rv*
Catalase Test Kit

K045 Pyrazinamidase Test Kit

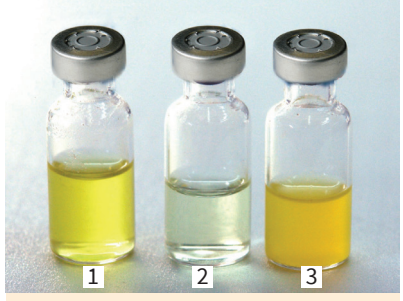
1. Control 2. Positive Test

K046 Thiophene-2-Carboxylic Hydrazide Test Kit



M. tuberculosis H *37rv*
Thiophene Carboxylic Hydrazide Test Kit

K048 Niacin detection Kit

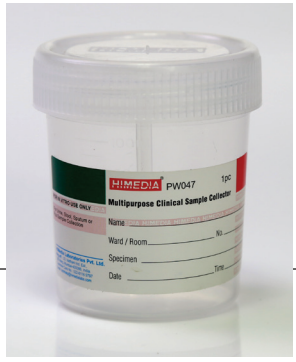


Positive control | Negative control | Test culture

On receipt all the above products to be stored between 2-8°C

For Sample Collection and processing

Sterile specimen collectors available are

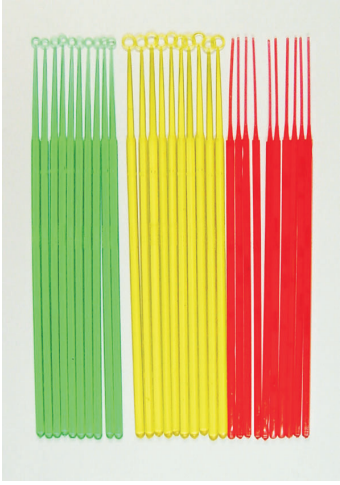


PW047 Multipurpose Clinical Sample Collector, Polypropylene
Autoclavable, graduated, capacity 100 ml. having spoon attachment for urine, stool, sputum or pus sample collection

PW015 Sterile Clinicol
For stool, sputum or pus sample collection having spoon attachment overflow capacity 20ml

PW1179 Sterile Multipurpose Clinical Sample Collector with spoon
Autoclavable, graduated, capacity 100 ml. having spoon attachment for urine, stool, sputum or pus sample collection

For working with pathogenic cultures - Disposable Plastic HiFlexiLoops



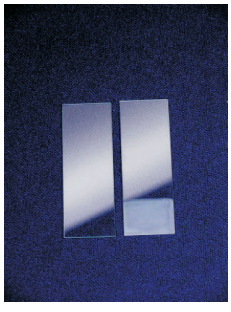
Disposable Plastic FlexiLoops
For working with
M. tuberculosis Culture

PW012/ PW012S*	**HiFlexiLoop 2** Sterilized flexible loop, 1.7 mm diameter, calibrated to 0.005ml, individually sealed
PW013/ PW013S*	**HiFlexiLoop 4** Sterilized flexible loop, 4.0 mm diameter, calibrated to 0.01ml, individually sealed
PW014/ PW014S*	**HiFlexiLoop-S** Sterilized flexible loop, straight for stab inoculation, individually sealed
PW051/ PW051S*	**StabiFlexiLoop Plus** Sterilized flexible calibrated loop with a streaker/ stabber tip, size :1.25mm diameter, calibrated to 1µl
PW052/ PW052S*	**StabiFlexiLoop Plus-2** Sterilized flexible calibrated loop with streaker/ stabber tip, size : 2.2 mm diameter, calibrated to 0.005 ml
PW053/ PW053S*	**StabiFlexiLoop Plus-4** Sterilized flexible calibrated loop with streaker/ stabber tip, size : 4.4 mm diameter, calibrated to 0.01ml

*** 'Economical pack' - 100 loops packed in Steripack container.**

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
GW054	M1 slides : 20±1 mm area frosted	1.2 mm

SL001T L.J. Medium Slant

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.

Auto Smear Systems

Advanced features makes it ideal for routine clinical or industrial applications

- Minimizes personal variation during slide smearing
- Precise, microprocessor - controlled smearing
- No cross contamination in all process
- Automation of smearing for several kinds of specimens

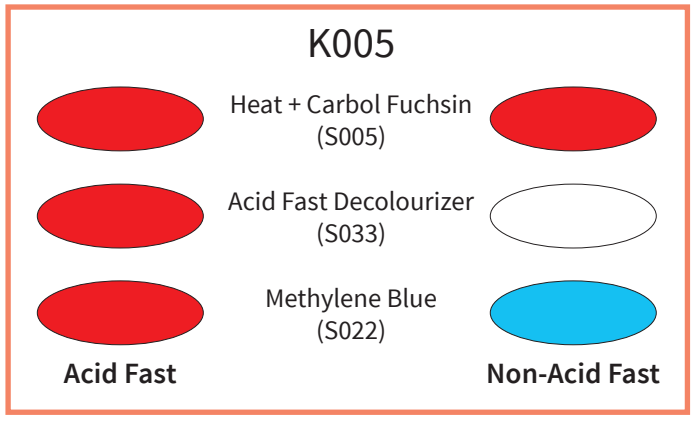
HiAuto AFB Smear™ (LA1014)	HiAuto LBC Smear™ (LA1016)
Processing of sputum, bodyfluids, culture materials for detecting acid fast bacilli	Processing specimen of human body's cell or bodyfluid; gyanaecological and nongyanecological samples for liq-uid based cytology study and acid fast bacilli detection
Processes one slide in one time operation	Processes two slides in one time operation
Single - filter kit for TB smearing	Dual - filter for LBC smearing
Further staining of smear by manual methods or automated staining systems	

Staining Kits for Diagnosis of Mycobacteria

Stains for Acid Fast Staining

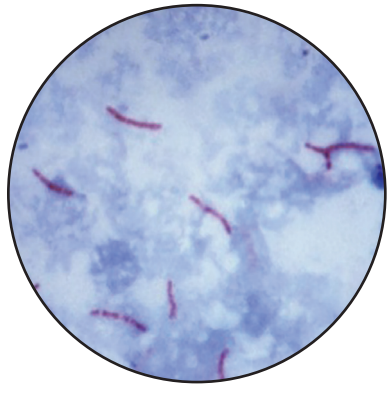
ZN Acid Fast Stains - Kit (contains S033,S005 and S022)	K005-1KT
Acid Fast Decolourizer	S033-125ML
Carbol Fuchsin (ZN, Strong)	S005-125ML
Methylene Blue (Loeffler's)	S022-125ML
ZN Acid Fast Stains - Kit (contains S033, S005 & S022)	K005L-1KT
Acid Fast Decolourizer	S033-500ML
Carbol Fuchsin (ZN,Strong)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

K005 ZN Acid Fast Stains - Kit



Stains for Mycobacteria Staining

Fluorescent Stains - Kit for Mycobacteria (contains S042, S043 and S044)	K021-1KT
Phenolic auramine	S042-125ML
Mycobacteria decolourizer	S043-125ML
Potassium permanganate	S044-125ML
Fluorescent Stains - Kit for Mycobacteria (contains S042, S043 and S044)	K021L-1KT
Phenolic auramine	S042-500ML
Mycobacteria decolourizer	S043-500ML
Potassium permanganate	S044-500ML
▣ HiCold Stain TB - Kit for Mycobacteria (Kit contains 100 ml each of Carbol Fuchsin Solution-S080, Decolourizer-S099, Counter Stain (Loeffler's Methylene Blue)-S081)	K062S-1KT
HiCold Stain TB - Kit for Mycobacteria (Kit contains 500ml each of Carbol Fuchsin Solution-S080, Decolourizer-S099, Counter Stain (Loeffler's Methylene Blue)-S081)	K062-1KT
▣ HiFluo-Phenol Free Stain - kit for Mycobacteria (Kit contains 200 ml each of Auramine – Rhodamine solution (Phenol free)-S082, Decolourizer-S099 (2x200), Potassium Permanganate Solution-S083)	K061-1KT



ZN Acid Fast Stains Kit (K005)
Acid fast organisms - Bright red Other organisms & cellular material Blue

Lyophilized Cultures

Mycobacterium intracellulare ATCC® 13950 ™*	0157P	2 sticks
Mycobacterium fortuitum subsp. fortuitum ATCC® 6841™*	0513P	2 sticks
Mycobacterium kansasii ATCC® 12478™*	0545P	2 sticks
Mycobacterium smegmatis ATCC® 607™*	0114P	2 sticks
Mycobacterium tuberculosis ATCC® 25177™*	0112P	2 sticks
Microbiology QC Slides *Mycobacterium* Control Slide	SL41-10	1 kit

▣ Customized Pack sizes are available
On recept all the above products to be stored between 10-30°C

Gram Staining & Acid Fast Staining (Ziehl-Neelsen)

LA999 HiDuo™ Autostainer

Easy Cleaning and Reagent level monitoring
LA999 designed to clean Tray, Nozzle, Pump and Valve easily. The reagent level monitoring function assures to remove wrong stain by lower level of reagent.

Heating system for Ziehl-Neelsen hot staining method
The automatic heating function is built in to stain it with heating. Temperature in the tray can be controlled. Duration and level of temperature can be pre programmed.

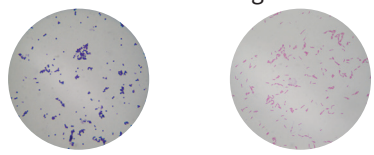
Available to stain for Gram and Ziehl-Neelsen
LA999 Can be used for Gram and Ziehl-Neelsen stainer just by simple selection and it can be available to obtain accurate and precision stain.

Simplicity: Just need to set desired Q'ty and start the staining cycle. All of staining process can be controlled by program. It provides reproducibility by controlling all phase of Stain cycle precisely.

No Cross Contamination
LA999 is available to apply fresh reagent on slides mounted in a rotating tray. Specimens contact only fresh, precisely metered stain from separate nozzles.

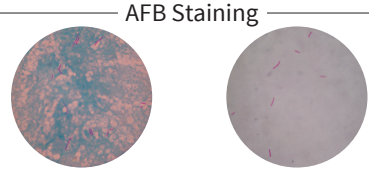
Staining results

Gram Staining



S. aureus *E. coli*

AFB Staining



Direct Smear Indirect Smear

Salient Features

- Available to stain for **Gram** and **Ziehl-Neelsen (2 in one)**
- Stain and dry up to **10 slides in 13 minutes**
- **No cross-contamination** in all process
- Reduction in **labour costs**
- **Heating system** for Ziehl-Neelsen staining
- **Easy cleaning system** to clean tray and Staining nozzle
- Checking and Warning alarm for **lower level of reagent**
- **Minimize personal variation** during AFB staining

	LA999 : Gram and Ziehl-Neelsen	
Staining method	Gram	Ziehl-Neelsen
Slide Tray Capacity	1 – 10	1 – 10
Tray Rotation Speed	Approx. 200RPM	
Display	4 Line by 20 character alpha-numeric LCD dot-matrix	
Key Button Controls	6 Mode Key(Stain, Prime, Clean, Dry, Reset, Up, Down), 6 Function selection	
Used Reagent/ Consumption	Crystal Violet: 1.2 ml – 1.8 ml Grams Iodine: 1.2 ml – 1.8 ml Grams Decolorizer: 1.2 ml – 1.8 ml Safranin: 1.2 ml – 1.8 ml	Carbol-Fuchsin: 1.2 ml – 1.8 ml AFB Decolorizer: 1.2 ml – 1.8 ml Methylene Blue: 1.2 ml – 1.8 ml
1 Cycle Stain Time (Typical)	10 slides in 13 minutes	10 slides in 15 minutes
Dimensions	480(W) x 445(D) x 265(H) mm, Clearance Height (Lid open) : Max. 565 mm	
Weight	Approx. 20 kg	
Electrical Requirements	100-240 V (Auto selectable) @50 to 60 Hz	
Power Consumption	Max. 800 Wats (Heating mode) / Max. 50W (Normal)	
Safety	Lid interlock : Lid must be closed, and is locked down during operation	
Standard Accessories	1L Reagent bottle (1 set each), 5L Water bottle (1), Reagent container (2), Reagent container cable (2), Power cord (1), Drain hose (1), Reagent connector tube (2 set), User Manual (1), Quick installation user's guide (1), Spare fuse (1), Carbon filter (5)	

HIMEDIA®

Enhanced

SL001 : L. J. Medium Slant

- For Rapid Cultivation of *Mycobacterium tuberculosis*
- Growth within 12-15 days

SL179 L. J. Medium Slopes for BCG Vaccine

- Complies as per I.P. Chapter 2.2.5 (Test for colony forming Units CFU)
- Manufactured in class 100 and class 10,000 area
- Broad surface area for enumeration of CFU
- High Quality SPF eggs are used.
- Validated against BCG Vaccines.

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