



Your perfect choice of BDA can meet your quality control and research needs to enable right detection of microorganisms.

## BACTERIOLOGICAL DIFFERENTIATION AIDS

Product	Page
<b>Bacteriological Differentiation Aids</b>	<b>317-329</b>
• Discs for Carbohydrate Fermentation Test	317
• Amino Acid Discs	317
• Differentiation Discs and Strips	317
• HiDtect™ Rapid Identification Disc	319
• Readymade Stains for Gram Staining	324
• Readymade Stains for Metachromatic Staining	324
• Readymade Stains for Capsule Staining	324
• Readymade Stains for Spore Staining	325
• Readymade Stains for Spirochaetes, Protozoa	325
• Readymade Stains for Mycobacteria Staining	325
• Readymade Stains for Acid Fast Staining	326
• Readymade simple Stains for Bacteria	326
• Readymade Stains for Bacteria and Bovine Cells in Milk	326
• Readymade Stains for Fungi	326

Product	Page
• Readymade Stains for Intestinal Protozoa	326
• Readymade Stains for Negative Staining	326
• Staining Kits for Haematology	327
• Staining Kits for Histology	327
• Other Stains	327
• Readymade Indicators	327
• Readymade Analytical Reagent	328
• Standard Solution	329

High Quality Microbiological Stains for Accuracy and Precision



## MICROBIOLOGICAL STAINS

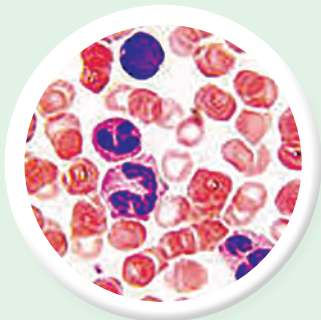
### BACTERIOLOGICAL DIFFERENTIATION AIDS

Stains play an important role in morphological determination of micro organisms which is a preliminary step used by microbiologist to identify pathogens.

HiMedia offers vast array and valuable cost effective, ready-to-use stains and staining kits for microbiological/ pathological laboratories, hospitals, research settings

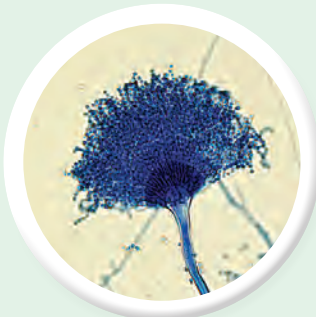
and educational institutes. These stains augment tissue morphology, demonstrate important cellular components, aid in the evaluation of diseases, and identifies pathogenic organisms. Thus it is an important tool used by pathologists to often guide patient's treatment.

#### Haematology Stains



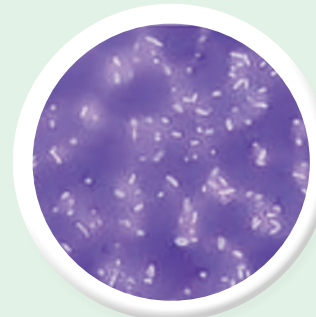
S018S Leishmans Stain

#### Mycology Stains



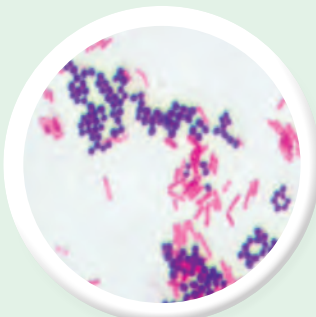
S016 Lactophenol Cotton Blue

#### Capsule Staining



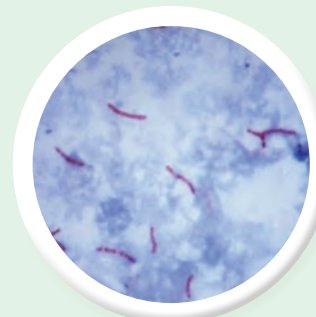
K004 Capsule Stains Kit

#### Bacteriology Stains



K001 Gram Stains Kit

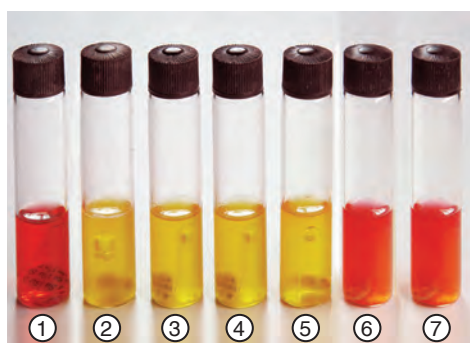
#### Mycobacteriology Stains



K005 Acid Fast Stains Kit



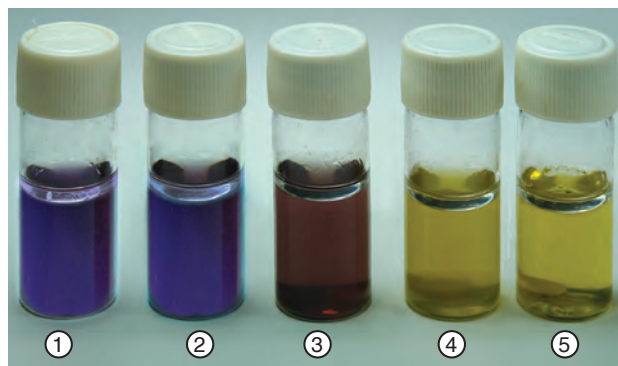
Product		Code	Packing
<b># Discs for Carbohydrate Fermentation Test</b>			
			1vl = 25 Discs
Adonitol	Ad	DD025-1VL	1vl
Arabinose	Ar	DD001-1VL	1vl
Cellobiose	Ce	DD028-1VL	1vl
Dextrose	De	DD002-1VL	1vl
Dulcitol	Du	DD003-1VL	1vl
Galactose	Ga	DD016-1VL	1vl
Fructose	Fc	DD017-1VL	1vl
Inositol	Is	DD027-1VL	1vl
Inulin	In	DD026-1VL	1vl
Lactose	La	DD004-1VL	1vl
Maltose	Ma	DD005-1VL	1vl
Mannitol	Mn	DD006-1VL	1vl
Mannose	Mo	DD007-1VL	1vl
Melibiose	Mb	DD030-1VL	1vl
Raffinose	Rf	DD029-1VL	1vl
Rhamnose	Rh	DD010-1VL	1vl
Salicin	Sa	DD011-1VL	1vl
Sorbitol	Sb	DD012-1VL	1vl
Sucrose	Su	DD013-1VL	1vl
Trehalose	Te	DD031-1VL	1vl
Xylose	Xy	DD014-1VL	1vl


**M054 Phenol Red Broth Base (With added DD004 Lactose)**

1. Uninoculated control
2. *Citrobacter freundii* ATCC 8090 +
3. *Klebsiella aerogenes* ATCC 13048 (WDCM 00175) +
4. *Escherichia coli* ATCC 25922 (WDCM 00013) +
5. *Klebsiella pneumoniae* ATCC 13883 (WDCM 00097) +
6. *Serratia marcescens* ATCC 8100 —
7. *Salmonella* Typhimurium ATCC 14028 (WDCM 00031) —

Key : + = Acid and gas production — = no fermentation  
 ▲ = formally known as *Enterobacter aerogenes*

Product		Code	Packing
<b># Amino Acid Discs</b>			
			1vl = 25 Discs
Lysine Hydrochloride		DD049-1VL	1vl
Arginine Hydrochloride		DD050-1VL	1vl
Ornithine Hydrochloride		DD051-1VL	1vl
Proline		DD052-1VL	1vl
Serine		DD053-1VL	1vl
Histidine		DD054-1VL	1vl


**DD049 Lysine Hydrochloride disc-incorporated in Moeller decarboxylase Broth Base (M393)**

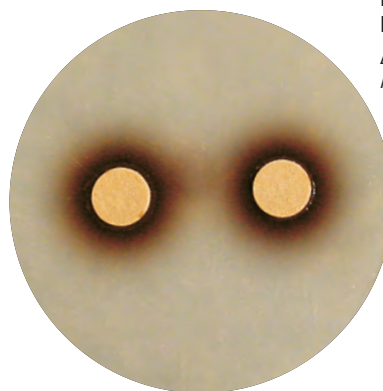
1. ▲ *Klebsiella aerogenes* ATCC 13048 (WDCM 00175) +
2. *Salmonella* Typhi ATCC 6539 +
3. Control
4. *Proteus vulgaris* ATCC 13315 —
5. *Shigella flexneri* ATCC 12022 (WDCM 00126) —

Key : + = Acid and gas production — = no fermentation  
 ▲ = formally known as *Enterobacter aerogenes*

<b>Differentiation Discs and Strips</b>			
<b>*Bacitracin (50 discs / vl)</b> for identification of <i>Streptococcus pyogenes</i> . Each disc contains 0.04 units	<b>B</b>	<b>DD015-1VL</b>	<b>1vl</b>
<b>*Bile Esculin (50 discs / vl)</b> for detection of <i>esculin hydrolysis</i> in the presence of bile.		<b>DD024-1VL</b>	<b>1vl</b>

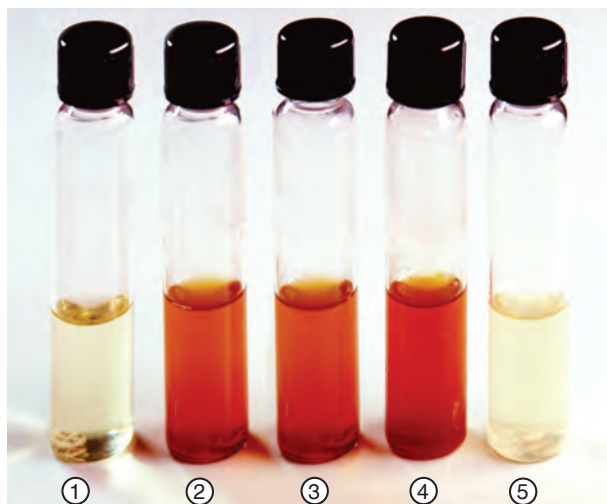
**M340 Bile Esculin Agar Base with Bile Esculin Discs (DD024)**

*Enterococcus faecalis*  
 ATCC 29212 (WDCM 00087)



Product	Code	Packing
<b>*DMACA Indole Discs (50 discs / vl)</b> for detection of indole formation by microorganisms.	Dm DD040-1VL	1vl
<b>*Hippurate (25 Discs / vl)</b> for hippurate hydrolysis testing.	Hp DD035-1VL	1vl
<b>*Kovac's Reagent Strips (25 Strips / vl)</b> for Indole testing.	DD019-1VL	1vl
<b>*Lead Acetate Paper Strips (25 strips / vl)</b> for H <sub>2</sub> S testing.	DD034-1VL	1vl
<b>*Nitrate Discs (50 discs / vl)</b> substrate for detection of nitrate reduction by microorganisms.	N DD041-1VL	1vl
<b>*Nitrate Reagent Discs (Twin Pack)</b> Part A : 50 discs / vl Part B : Rehydrating fluid (5ml / vl) for detection of nitrate reduction by microorganisms.	Nr DD042-1VL	1vl
<b>*ONPG (50 discs / vl)</b> for ONPG testing.	On DD008-1VL	1vl
<b>*Optochin (5 mcg) (50 discs / vl)</b> for identification of <i>Streptococcus pneumoniae</i> .	Op DD009-1VL	1vl

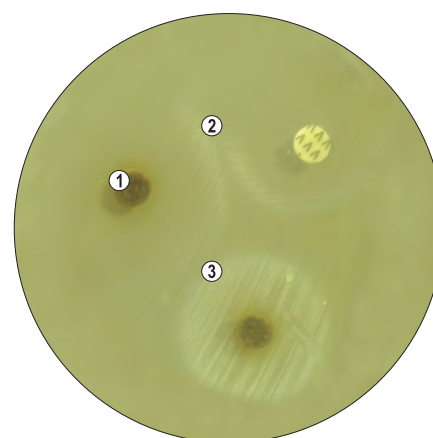
Product	Code	Packing
<b>*Oxidase Discs (50 discs / vl)</b> for Oxidase testing (10 mm).	DD018-1VL	1vl
<b>**Spore Strips (25 strips / pack)</b> steam sterilization monitor strips, <i>Bacillus stearothermophilus</i> , 10 <sup>6</sup> spores per strip.	DD032-1PK	1pk
<b>**Spore Strips (<i>B. pumilus</i>) (25 strips / pack)</b> radiation sterilization monitor strips, <i>Bacillus pumilus</i> , 10 <sup>6</sup> spores per strip.	DD039-1PK	1pk
<b>Sterile Discs, 10mm</b>	DD036-1VL	1vl
<b>Sodium Biselenite Disc (50 discs / vl)</b> 1 Disc per 10ML tube of Medium	DD056-1VL	1vl
<b>*X Factor (50 discs / vl)</b> for presumptive identification of <i>Haemophilus</i> species.	X DD020-1VL	1vl
<b>▼X+V Factor (50 discs / vl)</b> for presumptive identification of <i>Haemophilus</i> species.	X+V DD022-1VL	1vl
<b>▼V Factor (50 discs / vl)</b> for presumptive identification of <i>Haemophilus</i> species.	V DD021-1VL	1vl
<b>*Vibrio O129 Differential Disc (10 mcg) (50 discs / vl)</b> For differentiation of <i>Vibrio</i> species based on sensitivity to Vibriostatic agent O129.	DD047-1VL	1vl
<b>*Vibrio O129 Differential Disc (150 mcg) (50 discs / vl)</b> For differentiation of <i>Vibrio</i> species based on sensitivity to Vibriostatic agent O129	DD048-1VL	1vl



### M028 Peptone Water with added Nitrate Discs (DD041)

1. Control
2. *Salmonella* Typhimurium ATCC 14028 (WDCM 00031) +
3. ▲ *Klebsiella aerogenes* ATCC 13048 (WDCM 00175) +
4. *Escherichia coli* ATCC 25922 (WDCM 00013) +
5. *Acinetobacter calcoaceticus* ATCC 23055 —

Key : ▲ = formally known as *Enterobacter aerogenes*  
+ = red or pink colour formation on addition of Nitrate test reagents  
— = No colour change



- 1) X Factor (DD020)
- 2) V Factor (DD021)
- 3) X+V Factor (DD022)

*Haemophilus influenzae* ATCC 35056

## HiDtect™ Rapid Identification Disc

# Hi

Media has always been in frontline in finding solutions to the existing challenges in the field of microbiology and this urge has helped in the development of a wide range of products.

Latest and economical range of diagnostic product HiDtect™ Rapid Identification Disc has been developed which helps in direct identification of microorganisms from clinical samples, water samples, food samples, environment etc.

HiMedias new range of HiDtect™ Rapid Identification Discs is simple to perform. It eliminates the use of Selective Medias and further study elaborate biochemical tests.

Around twenty such unique discs are developed (DT001 to DT020) which finds application in various sectors of Food & Dairy industry, Water industry, Pharmaceuticals Laboratory Testing, Cosmetics industry, Environmental & Sanitary Testing, Clinical Diagnosis etc.

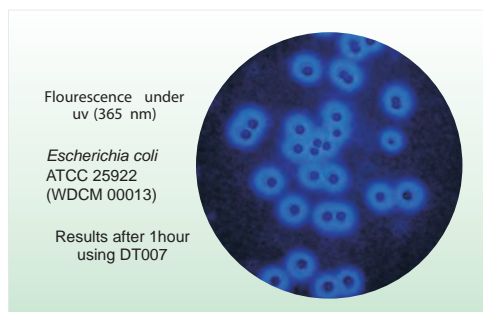
In either fields it involves the use of Enriched and Selective medias. The isolate is often presumptively identified morphologically by special staining methods and plated out on diagnostic medias. Further elaborate biochemical tests are done for confirmation of isolate recovered. Overall the whole procedure is time consuming, expensive and laborious. Hence there is continuous search for a technology that could aid in rapid, reliable, simple and economical diagnosis worldwide.

HiDtect™ Rapid Identification Discs have been developed which enables rapid and reliable detection of microorganisms.

It can detect metabolic activity as DNase activity of bacteria; useful for identification of pathogenic Staphylococci (DT004), identify pathogens causing UTI (DT001), study esculin hydrolysis and identify Group D Streptococci from food and pharmaceutical products (DT014). Discs identifying bacterias as *Salmonella* (DT002), *Pseudomonas* (DT003), *Bacillus* (DT011) *E.coli* and total coliforms (DT012 and DT013) also form part of HiDtect™ Rapid Identification Discs. On basis of Lactose Fermentation and Non lactose fermentation DT009 Discs detects *Enterobacteriaceae* and gram negative bacteria.

Ability to ferment sugars as Glucose (DT016), Lactose (DT017), Mannitol (DT018), Xylose (DT019), Sucrose (DT020) and characterisation of organisms can be studied within 1-4 hours using these discs. Besides these the organisms can be detected from environment (DT015), pathogens detected from foods (DT010) and microbial limit test organisms detected in pharmaceutical preparations using Universal Test Disc (DT005).

Detection of *E.coli* from water and food samples can be done using DT006, DT007, DT008 discs. HiDtect™ UTI identification Disc (DT001) helps identifying causing urinary tract infections, HiDtect™ Bacillus Identification disc (DT011) is also available for differentiation and identification of *Bacillus* from mixed cultures.



A method of detecting target organisms comprises following steps:

**Step I Inoculation, Isolation and Incubation**

**Step II Replication and Identification**

**Testing method**

It involves routine inoculating and isolation technique followed by replication and direct identification

**Step I**

Inoculate the organisms from sample on any of general purpose media, Nutrient Agar, Soyabean Casein Digest Agar, Plate Count Agar etc.

Adopt any of surface plating methods as; Spread Plate Method, Quadrant (four or five) streak pattern or T streak method so as to obtain isolated colonies from inoculums. Incubate at 35-37°C for 18-24 hours.

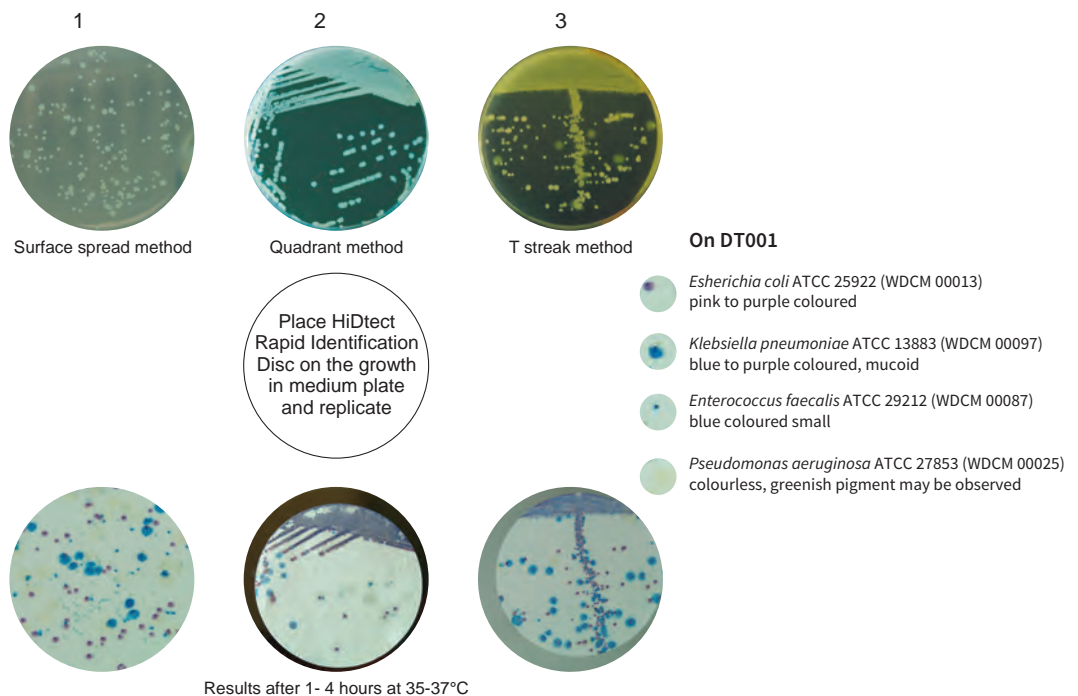
Check for bacterial growth

**Step II**

Place the HiDtect™ Rapid Identification disc of choice (suspected organisms) on the surface of Agar plate. Perform this step for maximum of 30 seconds. Mark the corresponding orientation of paper. This is replication technique.

Incubate the replicated identification disc in empty sterile petridish at 35-37°C for 1-4 hours. Alternately the disc may be kept for incubation on growth media at 35-37°C for 1-4 hours.

Observe for development of colour and interpret results.







1                      2                      3

Surface spread method      Quadrant method      T streak method

Place HiDtect Rapid Identification Disc on the growth in medium plate and replicate

Results after 1- 4 hours at 35-37°C

**On DT001**

-  *Esherichia coli* ATCC 25922 (WDCM 00013) pink to purple coloured
-  *Klebsiella pneumoniae* ATCC 13883 (WDCM 00097) blue to purple coloured, mucoid
-  *Enterococcus faecalis* ATCC 29212 (WDCM 00087) blue coloured small
-  *Pseudomonas aeruginosa* ATCC 27853 (WDCM 00025) colourless, greenish pigment may be observed

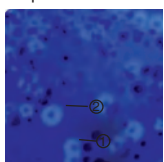
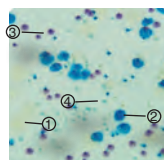
**HiDtect™ Rapid Identification Disc**
**HiDtect™**
**Rapid Identification Disc**
*Revolutionizing microbial detection*


HiDtect™ one day culture test

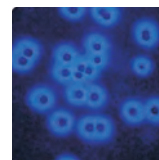
**'Confirmation  
in just  
1 - 4 hours'**

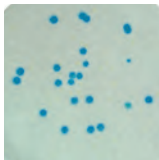
- ▶ Economical, Convenient, Rapid and Reliable test for confirmation of bacteria
- ▶ Beneficial to Clinical, Food & Meat industry, Dairy, Water, Pharmaceutical, Environmental and Cosmetic industry
- ▶ Direct application without any preparations, Results in just 1-4 hours.

Product	Code	Packing
<b>HiDtect™ UTI Identification Disc</b> For rapid detection and confirmation of microorganisms mainly causing urinary tract infection, for eg. <i>E.coli</i> , <i>Proteus</i> , <i>Klebsiella</i> , <i>Pseudomonas</i> , <i>S.aureus</i> & <i>Enterococcus</i> species.	DT001-10DS	10discs
	DT001-25DS	25discs
	DT001-50DS	50discs
1) <i>Pseudomonas aeruginosa</i> ATCC 27853 (WDCM 00025) 2) <i>Klebsiella pneumoniae</i> ATCC 13883 (WDCM 00097) 3) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) 4) <i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087)		
<b>HiDtect™ Salmonella Identification Disc</b> For rapid detection of <i>Salmonella</i> species from coliforms.	DT002-10DS	10discs
	DT002-25DS	25discs
	DT002-50DS	50discs
<b>HiDtect™ Pseudomonas Identification Disc</b> For rapid detection of <i>Pseudomonas aeruginosa</i> from clinical and nonclinical specimens.	DT003-10DS	10discs
	DT003-25DS	25discs
	DT003-50DS	50discs



Product	Code	Packing
<b>HiDtect™ DNase Identification Disc</b> For rapid detection of deoxyribonuclease (DNA) activity of bacteria especially for identification of pathogenic Staphylococci.	DT004-10DS	10discs
	DT004-25DS	25discs
	DT004-50DS	50discs
<b>HiDtect™ Universal Microbial Limit Test Disc</b> Recommended for detection of pathogenic microorganisms such as <i>E.coli</i> , <i>S.aureus</i> , <i>P.aeruginosa</i> and <i>Salmonella</i> species from pharmaceutical preparations, raw materials, cosmetic samples etc.	DT005-10DS	10discs
	DT005-25DS	25discs
	DT005-50DS	50discs
<b>HiDtect™ E.coli Chromogenic Identification Disc</b> For rapid detection & confirmation of <i>Escherichia coli</i> in water and food samples.	DT006-10DS	10discs
	DT006-25DS	25discs
	DT006-50DS	50discs
<b>HiDtect™ E.coli Fluorogenic Identification Disc</b> For rapid detection & confirmation of <i>Escherichia coli</i> in water and food samples on the basis of fluorogenic emission at 365 nm.	DT007-10DS	10discs
	DT007-25DS	25discs
	DT007-50DS	50discs
<i>Escherichia coli</i> ATCC 25922 (WDCM 00013)		



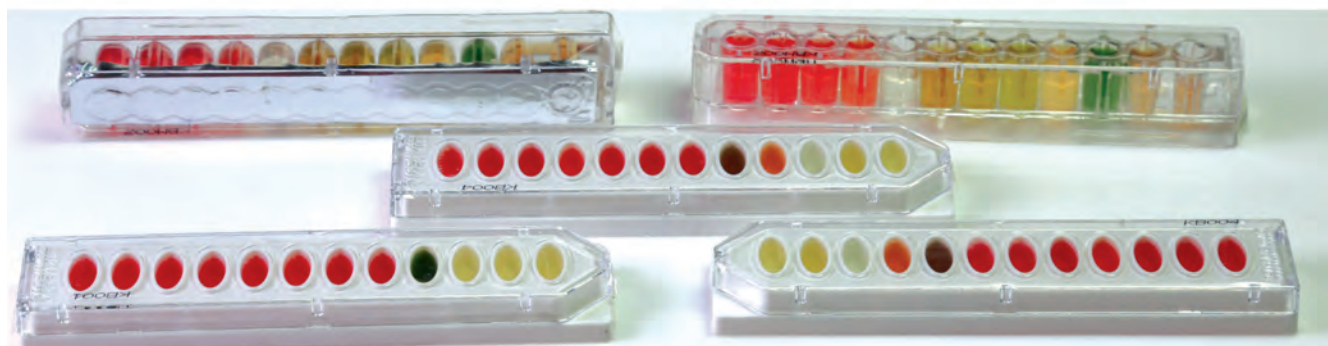
Product	Code	Packing
<b>HiDtect™ Dual Confirmation of E.coli Identification Disc</b> For rapid detection & confirmation of <i>Escherichia coli</i> in water and food samples.   <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) Blue colour	DT008-10DS DT008-25DS DT008-50DS	10discs 25discs 50discs
<b>HiDtect™ Differential Identification Disc</b> For rapid differentiation of Lactose fermenting and Lactose non fermenting enteric bacteria from water, food, dairy products, cosmetics, pharmaceutical preparations etc.	DT009-10DS DT009-25DS DT009-50DS	10discs 25discs 50discs
<b>HiDtect™ Universal Food pathogen Identification Disc</b> For rapid detection of food pathogens such as <i>E.coli</i> , <i>E.coli</i> O157:H7, <i>Staphylococcus aureus</i> , <i>Salmonella</i> , <i>Bacillus</i> , <i>Listeria</i> and <i>Shigella</i> species etc. from various food, dairy, fish, and meat products.  1) <i>Listeria monocytogenes</i> ATCC 19111 (WDCM 00020) 2) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) 3) <i>Escherichia coli</i> O157:H7 NCTC 12900 (WDCM 00014) 4) <i>Pseudomonas aeruginosa</i> ATCC 27853 (WDCM 00025)	DT010-10DS DT010-25DS DT010-50DS	10discs 25discs 50discs
<b>HiDtect™ Bacillus Identification Disc</b> For rapid detection and differentiation between various species of <i>Bacillus</i> such as <i>B.subtilis</i> , <i>B.cereus</i> , and <i>B.thuringiensis</i> from food, meat, fish, cosmetic and pharmaceutical preparations.	DT011-10DS DT011-25DS DT011-50DS	10discs 25discs 50discs
<b>HiDtect™ Total Coliform Identification Disc</b> For qualitative detection of coliforms from water, pharmaceutical preparations, dairy and food products.  1) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) Dark blue coloured 2) <i>Enterobacter cloacae</i> ATCC 23355 (WDCM 00082) Salmon to red coloured 3) <i>Klebsiella pneumoniae</i> ATCC 13883 (WDCM 00097) Light pink mucoid coloured	DT012-10DS DT012-25DS DT012-50DS	10discs 25discs 50discs
<b>HiDtect™ Differential Coli-E.coli Identification Disc</b> For rapid detection of <i>E.coli</i> , <i>Klebsiella</i> , <i>Pseudomonas</i> and <i>Salmonella</i> species in food and environmental samples.	DT013-10DS DT013-25DS DT013-50DS	10discs 25discs 50discs

Product	Code	Packing
<b>HiDtect™ Biochemical Esculin Identification Disc</b> For rapid detection of Group D Streptococci from food, dairy, water samples and pharmaceutical products etc.  1) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) 2) <i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087)	DT014-10DS DT014-25DS DT014-50DS	10discs 25discs 50discs
<b>HiDtect™ Universal Enviro Identification Disc</b> For rapid detection of <i>Pseudomonas</i> , <i>Enterococcus</i> , <i>E.coli</i> and <i>Salmonella</i> species etc. from environmental samples, samples of clinical origin such as nosocomial samples.  1) <i>Pseudomonas aeruginosa</i> ATCC 27853 (WDCM 00025) colourless, greenish pigment may be observed 2) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) pink to purple coloured 3) <i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087) blue coloured small	DT015-10DS DT015-25DS DT015-50DS	10discs 25discs 50discs
<b>HiDtect™ Glucose Fermentation Disc</b> For rapid detection of Glucose fermenting organisms from mixed flora where specific glucose fermentors will exhibit yellow colour.  1) <i>Staphylococcus aureus</i> ATCC 25923 (WDCM 00034) 2) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013)	DT016-10DS DT016-25DS DT016-50DS	10discs 25discs 50discs
<b>HiDtect™ Lactose Fermentation Disc</b> For rapid detection of Lactose fermenting organisms from mixed flora where specific lactose fermentors will exhibit yellow colour.	DT017-10DS DT017-25DS DT017-50DS	10discs 25discs 50discs
<b>HiDtect™ Mannitol Fermentation Disc</b> For rapid detection of Mannitol fermenting organisms from mixed flora where specific mannitol fermentors will exhibit yellow colour.	DT018-10DS DT018-25DS DT018-50DS	10discs 25discs 50discs
<b>HiDtect™ Xylose Fermentation Disc</b> For rapid detection of Xylose fermenting organisms from mixed flora where specific xylose fermentors will exhibit yellow colour.	DT019-10DS DT019-25DS DT019-50DS	10discs 25discs 50discs
<b>HiDtect™ Sucrose Fermentation Disc</b> For rapid detection of Sucrose fermenting organisms from mixed flora where specific sucrose fermentors will exhibit yellow colour.	DT020-10DS DT020-25DS DT020-50DS	10discs 25discs 50discs



## Rapid identification of bacteria upto species level

Rapid detection of pathogens from food, water and clinical samples



Product	Code
<b>Biochemical Identification Test Kits</b>	
<b>HiMViC™ Biochemical Test Kit</b> a combination of 12 tests for differentiation of <i>Enterobacteriaceae</i> species.	KB001
<b>HiAssorted™ Biochemical Test Kit</b> a combination of 12 tests for identification of Gram-negative rods.	KB002
<b>Hi25™ Enterobacteriaceae Identification Kit</b> a combination of 25 tests for identification of <i>Enterobacteriaceae</i> species.	KB003
<b>HiStaph™ Identification Kit</b> a combination of 12 tests for identification of <i>Staphylococcus</i> species.	KB004
<b>HiStrep™ Identification Kit</b> a combination of 12 tests for identification of <i>Streptococcus</i> species.	KB005A
<b>HiCandida™ Identification Kit</b> a combination of 12 tests for identification of <i>Candida</i> species.	KB006
<b>HiVibrio™ Identification Kit</b> a combination of 12 tests for identification of <i>Vibrio</i> species.	KB007
<b>HiNeisseria™ Identification Kit</b> a combination of 12 tests for identification of <i>Neisseria</i> species.	KB008
<b>HiCarbo™ Kit</b> a combination of 36 tests for utilization of carbohydrate tests. Kit contains Part A, Part B & Part C	KB009
<b>HiCarbo™ Kit- Part A</b>	KB009A
<b>HiCarbo™ Kit- Part B</b>	KB009B1
<b>HiCarbo™ Kit- Part C</b>	KB009C
Note : KB009 is available as a total kit and also individually as Part A, Part B & Part C	
<b>HiE. coli™ Identification Kit</b> a combination of 12 tests for identification of <i>E. coli</i> .	KB010
<b>HiSalmonella™ Identification Kit</b> a combination of 12 tests for identification of <i>Salmonella</i> species.	KB011
<b>HiListeria™ Identification Kit</b> a combination of 12 tests for identification of <i>Listeria</i> species.	KB012A
<b>HiBacillus™ Identification Kit</b> a combination of 12 tests for identification of <i>Bacillus</i> species.	KB013
<b>HiAcinetobacter™ Identification Kit</b> a combination of 12 tests for identification of <i>Acinetobacter</i> species.	KB014
<b>Motility Biochemical Test Kits</b>	
<b>HiMotility™ Biochemical Kit for E.coli</b> a combination of 12 tests for confirmation of <i>E.coli</i> based on motility and other biochemical tests.	KBM001
<b>HiMotility™ Biochemical Kit for Salmonella</b> a combination of 12 tests for confirmation of <i>Salmonella</i> based on motility and other biochemical tests.	KBM002
<b>HiMotility™ Biochemical Kit for Listeria</b> a combination of 12 tests for confirmation of <i>Listeria</i> based on motility and other biochemical tests.	KBM003A

Product

Code

Packing

Product

Code

Packing

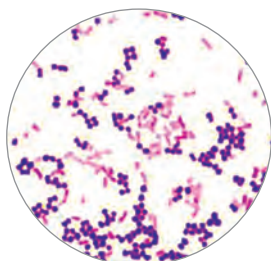
Readymade Stains

Stains for Gram Staining ▲

**Gram Stains - Kit**  
(contains S012, S032, S013 and S027 or S038)

**K001-1KT**

**1kt**



Gram Stains Kit (K001)  
Gram - positive : violet coloured  
Gram - negative : pinkish red coloured

Gram's Crystal Violet S012-125ML 125ml

Gram's Decolourizer S032-2x125ML 2x125ml

Gram's Iodine S013-125ML 125ml

Safranin, 0.5% w/v (Gram's Counterstain) S027-125ML 125ml

Basic Fuchsin 0.1% w/v (Gram's counterstain) S038-125ML 125ml

**Gram Stains - Kit**  
(contains S012, S032, S013 and S027 or S038)

**K001L-1KT**

**1kt**

Gram's Crystal Violet S012-500ML 500ml

Gram's Decolourizer S032-2x500ML 2x500ml

Gram's Iodine S013-500ML 500ml

Safranin, 0.5% w/v (Gram's Counterstain) S027-500ML 500ml

Basic Fuchsin 0.1% w/v (Gram's counterstain) S038-500ML 500ml

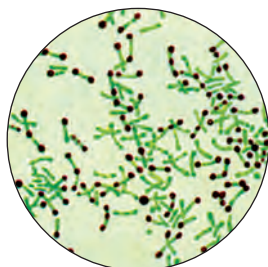
Stains for Metachromatic Staining ▲

Methylene Blue (Loeffler's) S022-125ML 125ml  
S022-500ML 500ml

**Albert's Metachromatic Stains - Kit**  
(contains S001 and S002)

**K002-1KT**

**1kt**



Albert's Metachromatic Stains Kit (K002)  
Metachromatic Granules - Black  
Cytoplasm - Light Green

Albert's Stain A S001-125ML 125ml

Albert's Stain B S002-125ML 125ml

**Albert's Metachromatic Stains - Kit**  
(contains S001 and S002) **K002L-1KT** **1kt**

Albert's Stain A S001-500ML 500ml

Albert's Stain B S002-500ML 500ml

**Neisser's Metachromatic Stains - Kit**  
(contains S013, S023 and S037) **K003-1KT** **1kt**

Gram's Iodine S013-125ML 125ml

Neisser's Methylene Blue S023-100ML 100ml

Neutral Red Solution S037-100ML 100ml

**Neisser's Metachromatic Stains - Kit**  
(contains S013, S023 and S037) **K003L-1KT** **1kt**

Gram's Iodine S013-500ML 500ml

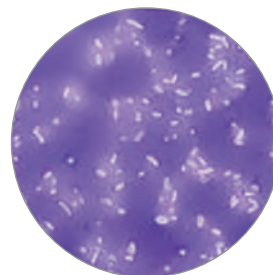
Neisser's Methylene Blue S023-500ML 500ml

Neutral Red Solution S037-500ML 500ml

☐ **Modified Neisser's Metachromatic Stains - Kit (1 minute staining)**  
(contains 100ml each of Modified Neisser's Methylene Blue -S065, Neisser's Crystal Violet Solution-S060 & Chrysoidine Y-S061) **K063-1KT** **1kt**

Stains for Capsule Staining ▲

**Capsule Stains - Kit**  
(contains S021 and S025) **K004-1KT** **1kt**



Capsule Stains Kit (K004)  
Clear halos against dark background

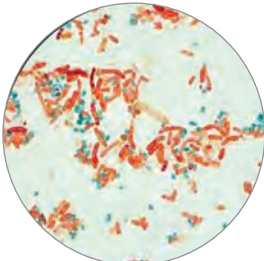
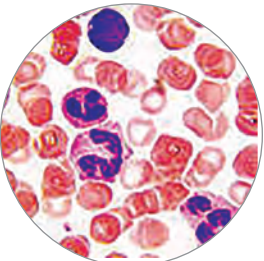
Methylene Blue (Aqueous) S021-125ML 125ml

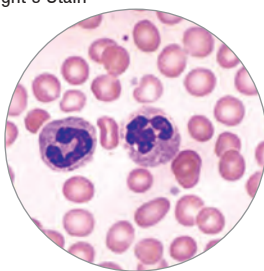
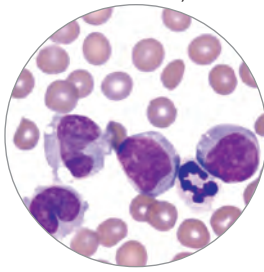
Nigrosin Stain, 10% w/v S025-100ML 100ml

**Capsule Stains - Kit**  
(contains S021 and S025) **K004L-1KT** **1kt**

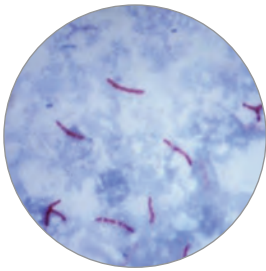
Methylene Blue (Aqueous) S021-500ML 500ml

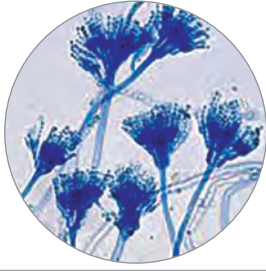
Nigrosin Stain, 10% w/v S025-500ML 500ml

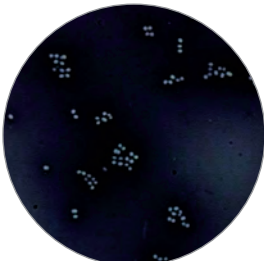
Product	Code	Packing
<b>Stains for Spore Staining ▲</b>		
<b>Schaeffer &amp; Fulton's Spore Stains - Kit</b> (contains S028 and S029)	<b>K006-1KT</b>	<b>1kt</b>
	Schaeffer & Fulton's Spore Stains Kit (K006) Spore - Green Vegetative Cells - Pink	
Schaeffer & Fulton's Spore Stain A	S028-100ML	100ml
Schaeffer & Fulton's Spore Stain B	S029-100ML	100ml
<b>Schaeffer &amp; Fulton's Spore Stains - Kit</b> (contains S028 and S029)	<b>K006L-1KT</b>	<b>1kt</b>
Schaeffer & Fulton's Spore Stain A	S028-500ML	500ml
Schaeffer & Fulton's Spore Stain B	S029-500ML	500ml
<b>Blood Films Stains for Spirochaetes, Protozoa and other purpose ▲</b>		
Brilliant Cresyl Blue Solution	S066-100ML	100ml
Giemsa's Stain	S011-100ML S011-500ML	100ml 500ml
Haematoxylin (Delafield's)	S014-125ML S014-500ML	125ml 500ml
Leishman's Stain (Twin Pack)	S018-250ML S018-500ML	250ml 500ml
Leishman's Stain Solution	S018S-250ML	250ml
	Leishman's Stains (S018S) Neutrophilic Granules - Lilac Eosinophilic Granules - Orange Nucleoli - Blue - Violet Red Cells - Pink Lymphocytes - Blue with purple nucleus	
May-Grunwald's Stain	S039-125ML S039-500ML	125ml 500ml

Product	Code	Packing
Wright's Stain	S030-250ML S030-500ML	250ml 500ml
	Wright's Stain (S030) 1. Erythrocytes - Yellowish red 2. Polymorphonuclears - Dark purple nucleus, red-dish lilac granules, pale pink cytoplasm 3. Eosinophils - Blue nuclei, red to orange red granules, blue cytoplasm 4. Basophils - Purple to dark blue nucleus, dark purple granules 5. Lymphocytes - Dark purple nuclei, sky blue cytoplasm 6. Platelets - Violet to purple granules	
<b>Malarial Parasite - Kit</b> (contains S008 and S009)	<b>K011-1KT</b>	<b>1kt</b>
	Malarial Parasite Kit (K011) 1. Nuclei - Blue 2. Neutrophilic granules - lilac 3. Eosinophilic granules - Orange 4. Red cells - pink	
Field's Stain A	S008-125ML	125ml
Field's Stain B	S009-125ML	125ml
<b>Malarial Parasite - Kit</b> (contains S008 and S009)	<b>K011L-1KT</b>	<b>1kt</b>
Field's Stain A	S008-500ML	500ml
Field's Stain B	S009-500ML	500ml
<b>Malarial Parasite - Kit</b> (contains S008 and S009)	<b>K049-1KT</b>	<b>1kt</b>
Field's Stain A	S008-250ML	250ml
Field's Stain B	S009-250ML	250ml
<b>Stains for Mycobacteria Staining ▲</b>		
<b>Fluorescent Stains - Kit for Mycobacteria</b> (contains S042, S043 and S044)	<b>K021-1KT</b>	<b>1kt</b>
Phenolic auramine	S042-125ML	125ml
Mycobacteria decolourizer	S043-125ML	125ml
Potassium permanganate	S044-125ML	125ml
<b>Fluorescent Stains - Kit for Mycobacteria</b> (contains S042, S043 and S044)	<b>K021L-1KT</b>	<b>1kt</b>
Phenolic auramine	S042-500ML	500ml
Mycobacteria decolourizer	S043-500ML	500ml
Potassium permanganate	S044-500ML	500ml

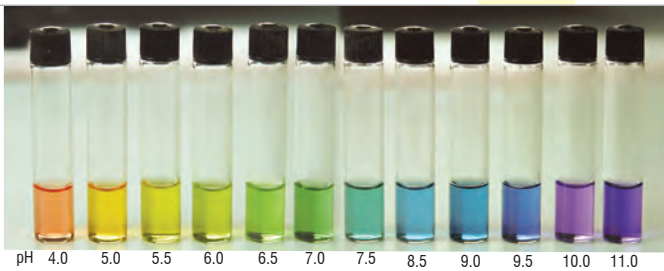
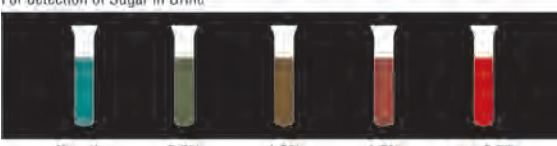
▲ Stains available in powder form, Refer Chemical Section.  
All the above products to be stored between 10-30°C.

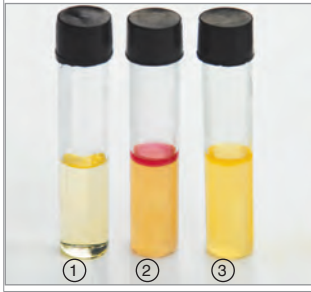
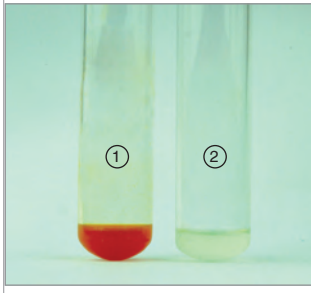
Product	Code	Packing
<b>Fluorescent Stains Kit for Mycobacteria</b> (Contains S042Y, S043Y & S044Y)	<b>K021Y-1KT</b>	<b>1kt</b>
Phenolic auramine O	S042Y-125ML S042Y-500ML S042Y-1L	125ml 500ml 1lt
Mycobacteria decolourizer	S043Y-125ML S043Y-500ML S043Y-1L	125ml 500ml 1lt
Potassium Permanganate	S044Y-125ML S044Y-500ML S044Y-1L	125ml 500ml 1lt
<b>HiCold Stain TB - Kit for Mycobacteria</b> [Kit contains 100ml each of Carbol Fuchsin Solution-S080, Decolourizer-S099, Counter Stain (Loeffler's Methylene Blue) S081]	<b>K062S-1KT</b>	<b>1kt</b>
<b>HiCold Stain TB - Kit for Mycobacteria</b> [Kit contains 500ml each of Carbol Fuchsin Solution-S080, Decolourizer-S099, Counter Stain (Loeffler's Methylene Blue)-S081]	<b>K062-1KT</b>	<b>1kt</b>
<b>HiFluo-Phenol Free Stain - kit for Mycobacteria</b> [Kit contains 200ml each of Auramine – Rhodamine solution (Phenol free)-S082, Decolourizer-S099 (2 x200), Potassium Permanganate Solution-S083]	<b>K061-1KT</b>	<b>1kt</b>
<b>Stains for Acid Fast Staining ▲</b>		
<b>ZN Acid Fast Stains - Kit</b> (contains S033,S005 and S022)	<b>K005-1KT</b>	<b>1kt</b>
	<b>ZN Acid Fast Stains Kit (K005)</b> Acid fast organisms - Bright red Other organisms & cellular material Blue	
Acid Fast Decolourizer	S033-125ML	125ml
Carbol Fuchsin (ZN,Strong)	S005-125ML	125ml
Methylene Blue (Loeffler's)	S022-125ML	125ml

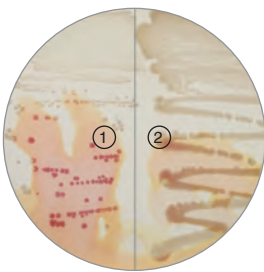
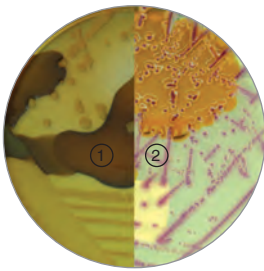
Product	Code	Packing
<b>ZN Acid Fast Stains - Kit</b> (contains S033, S005 & S022)	<b>K005L-1KT</b>	<b>1kt</b>
Acid Fast Decolourizer	S033-500ML	500ml
Carbol Fuchsin (ZN,Strong)	S005-500ML	500ml
Methylene Blue (Loeffler's)	S022-500ML	500ml
<b>Simple Stains for Bacteria ▲</b>		
Carbol Fuchsin (ZN, Dilute)	S006-125ML S006-500ML	125ml 500ml
Eosin, 2% w/v	S007-125ML S007-500ML	125ml 500ml
Gentian Violet	S010-125ML S010-500ML	125ml 500ml
Malachite Green, 1% w/v	S020-100ML S020-500ML	100ml 500ml
Methylene Blue (Aqueous)	S021-125ML S021-500ML	125ml 500ml
<b>Stains for Bacteria and Bovine Cells in Milk ▲</b>		
Newman's Stain, Modified	S024-100ML S024-500ML	100ml 500ml
<b>Stains for Fungi ▲</b>		
Lactophenol	S015-100ML S015-500ML	100ml 500ml
Lactophenol Cotton Blue	S016-100ML S016-500ML	100ml 500ml
	<b>Lactophenol Cotton Blue (S016)</b> Fungal spores & hyphae - Pale to dark blue	
Lactophenol Picric Acid	S017-100ML S017-500ML	100ml 500ml
Mayer's Mucicarmine Stain	S031-100ML S031-500ML	100ml 500ml
Picric Acid (Saturated, Aqueous)	S026-100ML S026-500ML	100ml 500ml
<b>Stains for Intestinal Protozoa ▲</b>		
Lugol's Iodine	S019-125ML S019-500ML	125ml 500ml
<b>Stains for Negative Staining ▲</b>		
Congo red (1% aqueous) Solution	S067-125ML S067-500ML	125ml 500ml


Product	Code	Packing
Nigrosin Stain, 10% w/v	S025-100ML S025-500ML	100ml 500ml
 <p>Nigrosin Stain, 10% w/v (S025) Capsules - Clear halos Surrounding the bacterial cells.</p>		
Staining Reagents for Haematology		
C.S.F. Diluting Fluid	R004-125ML	125ml
E.D.T.A. (di-sodium) 5%	R019-125ML	125ml
R.B.C. Diluting Fluid (Grower's)	R023-500ML	500ml
R.B.C. Diluting Fluid (Hayemis)	R013-500ML	500ml
Thrombocount reagent	R083-500ML	500ml
W.B.C. Diluting Fluid	R016-500ML	500ml
Staining Reagents for Histology		
HiDecal (mild decalcifying solution)	R084-500ML	500ml
HiDecal (strong decalcifying solution)	R085-500ML	500ml
Other Stains		
Borax Carmine (Grenacher's), Alcoholic Stain	S003-125ML S003-500ML	125ml 500ml
Borax Carmine (Grenacher's), Aqueous Stain	S004-125ML S004-500ML	125ml 500ml
FA Rhodamine Counterstain	S041-100ML S041-500ML	100ml 500ml
Fixative (BFA), for Rapid fixing of haematological samples	S119-500ML	500ml
Fixative (Buffered Formalin fixative) for fixing cytological or histological samples	S109-500ML	500ml
Fixative, for fixing cytological or histological samples	S102-500ML	500ml
Fixative, for rapid fixing of haematological samples	S118-500ML	500ml

Product	Code	Packing
Fixing solution, for fixing Haematological samples	S062-500ML	500ml
Grams Iodine, Stabilized	S057-125ML S057-500ML	125ml 500ml
Haematoxylin (Ehrlich)	S059-125ML S059-500ML	125ml 500ml
Haematoxylin (Gill No.3)	S076-500ML	500ml
Haematoxylin (Harris)	S034-125ML S034-500ML	125ml 500ml
Haematoxylin (Mayer)	S058-125ML S058-500ML	125ml 500ml
M'Fadyean Stain (Polychrome Methylene Blue)	S047-125ML S047-500ML	125ml 500ml
Romanowsky-Giemsa (RG) stain	S125-500ML	500ml
* Schiff's fuchsin-sulphite reagent	S070-500ML	500ml
Shorr's Stain solution for hormonal cytodiagnosis	S126-500ML	500ml
Readymade Indicator		
Andrade's Indicator	I001-125ML	125ml
Bromocresol Green Indicator	I002-125ML	125ml
Bromocresol Purple Indicator	I003-125ML	125ml
Bromophenol Blue Indicator	I004-125ML	125ml
Bromothymol Blue Indicator	I005-125ML	125ml
Methyl Orange Indicator	I006-125ML	125ml
Methyl Red Indicator	I007-125ML	125ml
Mixed Indicator Solution (25X) (Dimidium Bromide-Disulphine Blue indicator)	I014-100ML	100ml
Neutral Red Indicator	I008-125ML	125ml
Phenolphthalein, 0.1% w/v	I009-125ML	125ml
Phenol Red Indicator	I010-125ML	125ml
Thymol Blue Indicator	I011-125ML	125ml
Thymolphthalein Indicator	I012-125ML	125ml

Product	Code	Packing
Universal Indicator	I013-100ML I013-500ML	100ml 500ml
 <p style="text-align: center;">Universal Indicator (I013)</p>		
Readymade Analytical Reagents		
Acetate Buffer, pH 5.6	R040-5x100ML	5x100ml
*Acid Phosphatase Reagent	R096-5x10ML	5x10ml
Barium Chloride Solution, 10% w/v	R001-500ML	500ml
Barritt Reagent A (for VP test)	R029-100ML	100ml
Barritt Reagent B (for VP test)	R030-100ML	100ml
Benedict's Qualitative Reagent	R002-500ML R002-5L	500ml 5lt
<p>For detection of Sugar in Urine</p>  <p style="text-align: center;">Benedict's Qualitative Reagent (R002)</p>		
Benedict's Quantitative Reagent	R003-500ML	500ml
Butterfield's Phosphate Buffered Dilution Water	R094-500ML	500ml
C.S.F. Diluting Fluid	R004-125ML	125ml
DMACA Reagent	R035-10ML	10ml
E.D.T.A. (di-sodium) 5%	R019-125ML	125ml
EDTA 0.02N solution	R093-500ML	500ml
Ehrlich's Aldehyde Reagent	R005-125ML	125ml
Fehling Solution No. 1	R037-500ML	500ml
Fehling Solution No. 2	R038-500ML	500ml

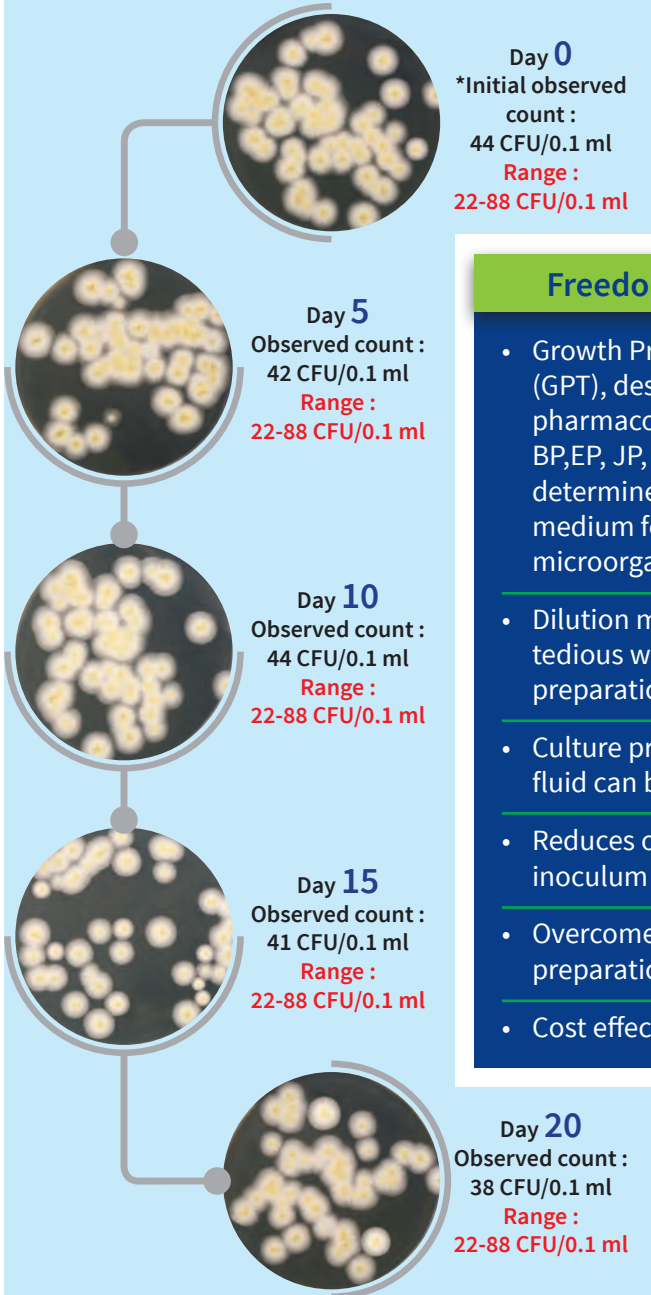
Product	Code	Packing
Folin & Wu's Alkaline Copper Solution	R006-500ML	500ml
Folin & Wu's Phosphate, Molybdate Solution	R007-500ML	500ml
Fouchet's Reagent	R018-125ML	125ml
Gaby-Hadley Reagent A	R027-100ML	100ml
Gaby-Hadley Reagent B	R028-100ML	100ml
Gordon-McLeod Reagent (Oxidase reagent)	R026-100ML	100ml
HiDecal (Mild Decalcifying Solution)	R084-500ML	500ml
HiDecal (Strong Decalcifying Solution)	R085-500ML	500ml
Iodine Solution	R044-125ML	125ml
Kovac's Indole Reagent	R008-100ML	100ml
 <p><b>Kovac's Indole Reagent (R008)</b></p> <ol style="list-style-type: none"> <li>Control</li> <li><i>Escherichia coli</i> ATCC 25922 (WDCM 00013) +</li> <li><i>Klebsiella aerogenes</i> ATCC 13048 (WDCM 00175) —</li> </ol> <p>Key :- + Red ring at interface of the medium — No red ring ▲ = formally known as <i>Enterobacter aerogenes</i></p>		
Millon's Reagent	R097-250ML R097-500ML R097-2.5L	250ml 500ml 2.5lt
α-Naphthylamine Solution	R009-100ML	100ml
Nessler's Reagent For Ammonia & Ammonia Salt	R010-125ML	125ml
Nessler's Reagent For serum urea nitrogen	R017-100ML	100ml
 <p><b>Nessler's Reagent (R017)</b></p> <ol style="list-style-type: none"> <li><i>Proteus mirabilis</i> ATCC 25933 +</li> <li><i>Escherichia coli</i> ATCC 25922 (WDCM 00013) —</li> </ol> <p>Key :- + Brownish yellow ppt — No colour change</p>		
O'Meara Reagent	R031-100ML	100ml
Potassium Chromate, 5% w/v	R011-125ML	125ml

Product	Code	Packing
Potassium Oxalate, 5% w/v	R012-125ML	125ml
<b>PYR Reagent</b>	R043-10ML	10ml
 <p><b>PYR Reagent (R043)</b></p> <p>1) <i>Enterococcus faecalis</i> ATCC 29212 (WDCM 00087) Positive reaction red colouration around the colony</p> <p>2) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) Negative reaction no change in colour</p>		
R.B.C. Diluting Fluid (Grower's)	R023-500ML	500ml
R.B.C. Diluting Fluid (Hayemis)	R013-500ML	500ml
Sodium Citrate, 3.8% w/v	R014-125ML	125ml
Sterile Distilled Water	R041-5x100ML	5x100ml
Sterile Mineral Oil	R045-100ML	100ml
Sterile Phosphate Buffered Saline Solution, pH 7.0	R039-5x100ML	5x100ml
Sulphanilic Acid, 0.8%	R015-100ML	100ml
Sulphosalicylic Acid 3%	R020-125ML	125ml
<b>TDA Reagent</b>	R036-10ML	10ml
 <p><b>TDA Reagent (R036)</b></p> <p>1) <i>Proteus mirabilis</i> ATCC 25933 Positive reaction dark brown colouration around the colony</p> <p>2) <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) Negative reaction</p>		
<b>o-Toluidine reagent</b> For chlorine estimation	R022-500ML	500ml
<b>o-Toluidine Reagent</b> For blood glucose estimation	R024-500ML	500ml
Topfer Reagent	R021-100ML	100ml
W.B.C. Diluting Fluid	R016-500ML	500ml
Standard Solutions		
Ammonium Buffer Solution	R061-1L	1lt
Boric Acid Solution	R062-500ML	500ml

Product	Code	Packing
* Buffer Solution, pH 4.0 ± 0.02	R064-500ML	500ml
* Buffer Solution, pH 7.0 ± 0.02	R063-500ML	500ml
* Buffer Solution, pH 9.2 ± 0.02	R065-500ML	500ml
EDTA, 1M Solution	R066-500ML	500ml
EDTA Titran, 0.035N	R067-500ML	500ml
* McFarland standard set (Each set contains 1 tube of 0.5, 1, 2, 3, 4 McFarland standard)	R092-1No	1 No
 <p><b>McFarland standard set</b></p> <p>Increasing opacity from McFarland standard 0.5 to McFarland standard 4</p> <p>1. McFarland Standard 0.5 2. McFarland Standard 1.0 3. McFarland Standard 2.0 4. McFarland Standard 3.0 5. McFarland Standard 4.0</p>		
* McFarland standard set (Each set contains 1 tube of 0.5, 1, 2 McFarland standard)	R092S-1No	1 No
Silver Nitrate Solution, 0.1N	R068-500ML	500ml
Sodium thiosulphate, 0.1N	R069-1L	1lt
Sodium Hydroxide Standard Solution, 0.035N	R070-500ML	500ml
* Standard Solution for conductivity 1413 µS/cm	R071-500ML	500ml
* Standard Solution for conductivity 12880 µS/cm	R072-500ML	500ml
* Wij's Solution	R074-1L R074-2.5L	1lt 2.5lt

## Rehydration Fluid for GPT (Fungus) LQ313IX

Stability of Fungus upto 20 days



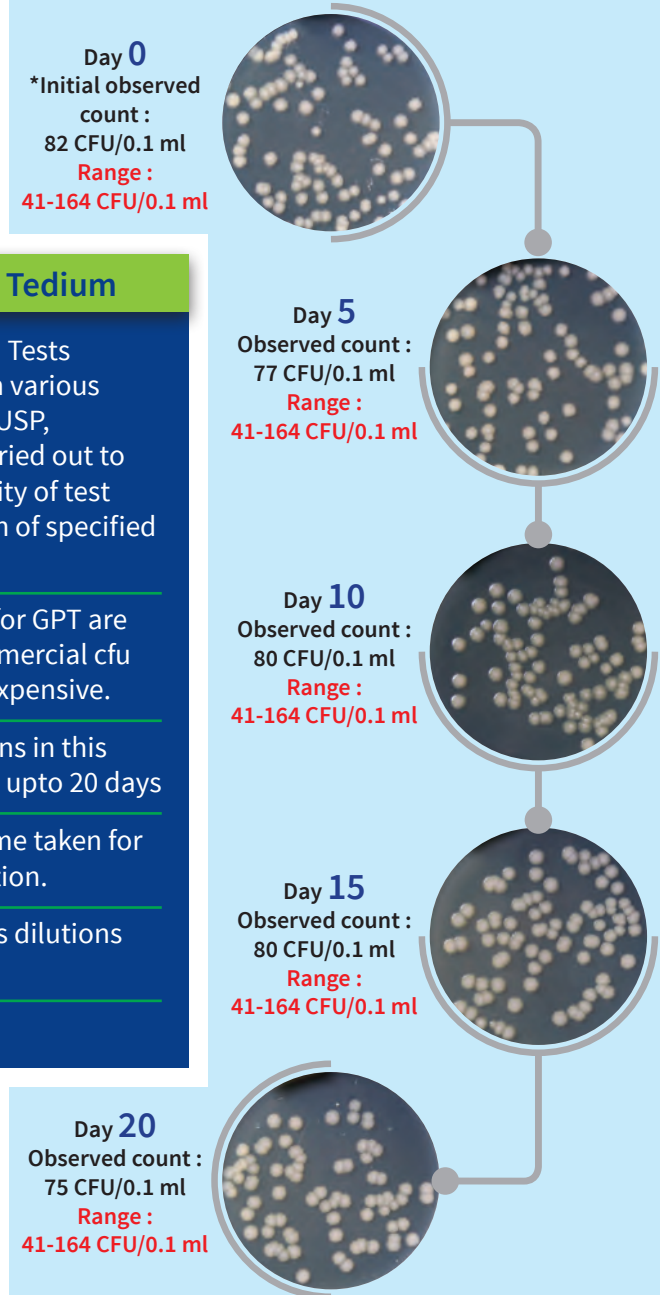
Tested against *Aspergillus brasiliensis* ATCC 16404

**Note :**

\*Initial observed count : 44 CFU/0.1 ml  
Factor 2 of 44 CFU/0.1 ml is  $44/2 = 22$  &  $44 \times 2 = 88$   
Hence range will be : 22 - 88 CFU/0.1 ml

## Rehydration Fluid for GPT (Bacteria) LQ254IX

Stability of Bacteria upto 20 days



Tested against *Escherichia coli* ATCC 8739

**Note :**

\*Initial observed count : 82 CFU/0.1 ml  
Factor 2 of 82 CFU/0.1 ml is  $82/2 = 41$  &  $82 \times 2 = 164$   
Hence range will be : 41 - 164 CFU/0.1 ml

### Freedom from Tedium

- Growth Promotion Tests (GPT), described in various pharmacopoeias (USP, BP, EP, JP, IP) is carried out to determine suitability of test medium for growth of specified microorganisms.
- Dilution methods for GPT are tedious while commercial cfu preparations are expensive.
- Culture preparations in this fluid can be stored upto 20 days
- Reduces overall time taken for inoculum preparation.
- Overcomes tedious dilutions preparations.
- Cost effective.