MicroBiology™
Understanding Microbes

HIMEDIA ®
HiBioKem ID ™

Introducing

Identify your Microbe
Through Biochemical Test

Automatic–Fast–Accurate

LA1142

- ▪ Rapid identification for microorganisms
- ▪ Automated Detection, Reading and Analysis
- ▪ AI-enabled Learning Technology

- ▪ Strip analyzed and Result generated in seconds
- ▪ Easy-to-Setup & use
- ▪ Store Result easily

HiMediaLaboratories™
himedialabs.com

HIMEDIA ®
For Life is Precious

Intended Use

Recommended for identification of bacteria up to species level.

Key Features

- Rapid identification for microorganisms
- Automated Detection, Reading and Analysis
- AI-enabled Learning Technology
- Strip analyzed and Result generated in seconds
- Easy-to-Setup & use
- Store Result easily

Advantages

- Rapid detection of Microbes from various industries like Pharma, Food, Water and Clinical samples.
- Saves Labor, Time and minimizes Manual Error
- Simple operation steps

Principle

HiBioKemID™ Reader is an automated system designed to be used with KB Biochemical Test kit which is a standardized colorimetric identification system utilizing conventional biochemical tests and carbohydrate utilization tests. The tests are based on the principle of pH change and substrate utilization. On incubation organisms undergo metabolic changes which are indicated by a colour change in the media that can be either interpreted visually or after addition of the reagent.
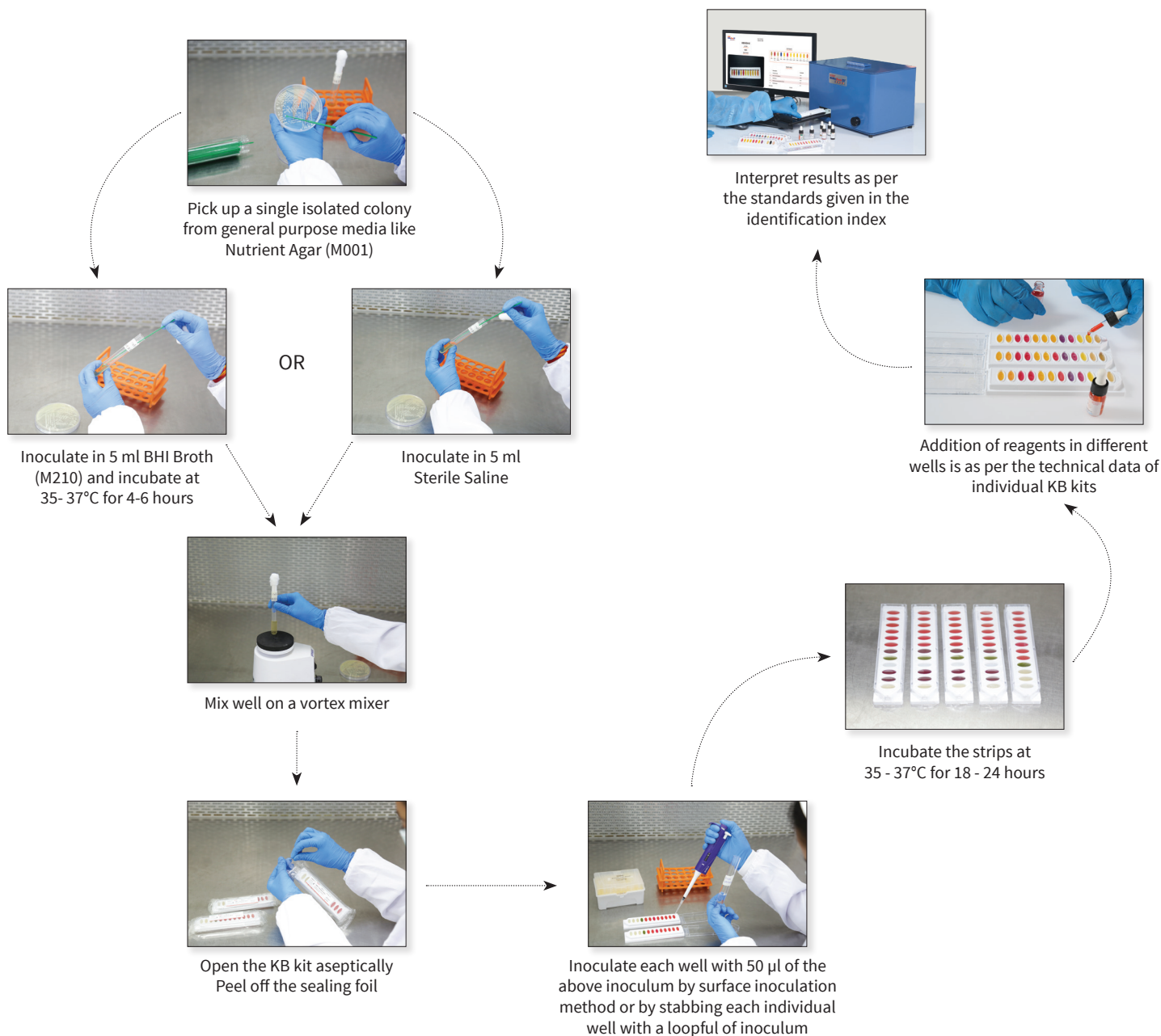
HiBioKemID™ Reader is used to detect these changes in the media and analyze the sample to predict the presence of a particular micro-organism. It is ideal for use in quality control programs to quickly screen a large number of samples for checking the presence of a specific pathogen.

Once the inoculated strip is placed in the drawer provided, image of the strip will be taken directly. Colours of the wells in strips are detected using camera in controlled environment. Light also can be adjusted to capture accurate colours. After the image is captured, data is analyzed and results are calculated automatically within seconds. Reading time for a single strip is around 5 to 15 seconds. Results are generated and displayed to the user. Results are calculated automatically using a cloud database, making them consistent. User can easily store the results in PDF format on portable drives. The whole process of reading is simple and requires no extensive training.

The Database of the system is constantly updated with new research data.

Users Direction

Pick up a single isolated colony from general purpose media like Nutrient Agar (M001)

OR

Inoculate in 5 ml BHI Broth (M210) and incubate at 35- 37°C for 4-6 hours

Inoculate in 5 ml Sterile Saline

Mix well on a vortex mixer

Open the KB kit aseptically Peel off the sealing foil

Inoculate each well with 50 µl of the above inoculum by surface inoculation method or by stabbing each individual well with a loopful of inoculum

Incubate the strips at 35 - 37°C for 18 - 24 hours

Addition of reagents in different wells is as per the technical data of individual KB kits

Interpret results as per the standards given in the identification index

Limitations

- The identification index has been compiled from standard references and results of tests carried out in the laboratory.

- Pure isolates to be used for accurate identification of three most probable microorganisms.

- Further serological or any other specific identification test (like MALDI-TOF MS) needs to be performed for complete identification upto species level.

- The KBM series of Motility and Biochemical kit could not be identified in the HiBioKemID™ machine.

Technical Specifications

Product Code	LA1142
Product Name	HiBioKem ID™ Reader
Input Voltage	240v 50/60Hz
Display Interface	2x HDMI
Data Transfer	2x USB 3.0
Support for USB Mouse and Keyboard	Yes
Network Connection	Ethernet, Wi-Fi (Required)
Block material	Aluminium Alloy
Light Adjustment	Yes
Results/ Traceability	Image/Test Results/ Organism's Probability
Weight	4 kg
Dimension (LXWXH)	250mm x 350mm x 220mm
Hot Lid Temperature	30~110°C, Stepless Adjustable, hot lid with pressure-protection