DT002 HiDtect Salmonella Identification Disc

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.

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

DT002 is recommended for rapid detection of *Salmonella* species from coliforms

A. Appearance: White coloured sterile identification disc.

B. Testing method:

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

Step I Inoculation, Isolation and Incubation

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.

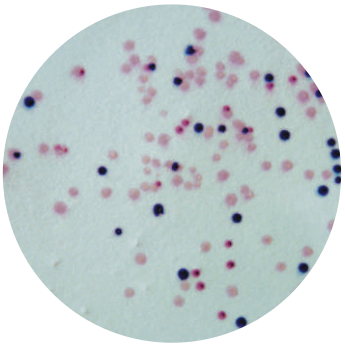
Check for bacterial growth

Step II Replication and Identification

Place the HiDtect™ Rapid Identification disc of choice (suspected organisms) on the surface of Agar plate.
Perform this step for maximum of 30 seconds - 1 minute.
Mark the corresponding orientation of paper.
This is replication technique.

Incubate the replicated identification disc in empty sterile Petri dish at 35-37° C for 1-4 hours. If desired paper disc can be placed on dry lid of same plate & incubate in inverted position. If lid has moisture wipe it with sterile cotton.

Observe for development of colour and interpret results.



Salmonella Typhimurium (ATCC 14028) light purple coloured

Salmonella Enteritidis (ATCC 13076) light purple coloured

Klebsiella pneumoniae (ATCC 13883) colourless, mucoid

Esherichia coli (ATCC 25922) blue coloured

C. Cultural Response: Identification observed within 1-4 hours on replication and incubation at 35-37°C , when disc is placed on an 18 hour old grown culture plate of any general media.

Organisms (ATCC)	Colour of Colony
Escherichia coli (25922)	blue
Salmonella Typhimurium (14028)	light purple
Salmonella Enteritidis (13076)	light purple
Klebsiella pneumoniae (13883)	colourless to pink mucoid

Refer overleaf page for systematic procedure.

Disposal method:

The disc may contain potentially harmful microorganisms which have been impregnated through replication technique. In case traceability is desired, the identification disc can be autoclaved at 121°C for 30 minutes and laminated or preserved for further reference. In case traceability is not desired the disc may be autoclaved or incinerated and disposed in accordance with current and local authority regulation.

Storage & shelf life : Recommended storage temperature ;2-8°C in intact containers. For best performances use before expiry period as specified on the label

◆ Available in packs of 10 Discs / 25 Discs / 50 Discs

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HiDtect™

Systematic Procedure for HiDtect Application

Sterile Medium Plate

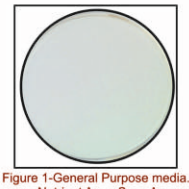
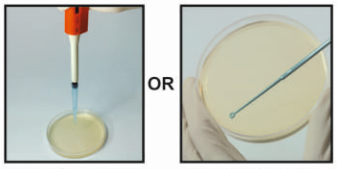


Figure 1-General Purpose media.
e.g. Nutrient Agar, Soya Agar,
Plate count Agar etc.

- *Simply Inoculate → Incubate → Replicate → Interpret & Confirm in 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*

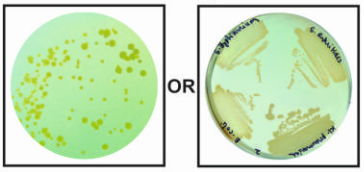
Inoculation



(Quantitative method) (Streak plate method)
Figure 2-Inoculate plate with Test Sample.

Incubate at 35 - 37°C
For 18 - 24 Hrs

Growth of Organisms



(Quantitative method) (Streak plate Method)
Figure 3-Growth after incubation at 35 to 37°C after 18-24 hrs

Lifting of Paper

Figure 4- With the help of sterile forcep remove the Rapid Identification Disc under aseptic condition. If required mark the corresponding orientation of the paper. *For traceability, suggested to mark on paper if required

Placement of Paper

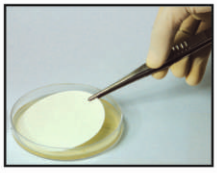


Figure 5- Place the HiDtect Disc on the surface colonies of Agar plate (as obtained in Fig. 3).

Replication of Discs

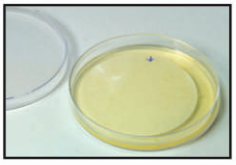


Figure 6 -Allow the filter paper to adsorb the growth by allowing the disc to be in contact with the surface of Agar plate for 30 seconds to 1 Min. (THIS IS REPLICATION.)

Transfer to Sterile Plate

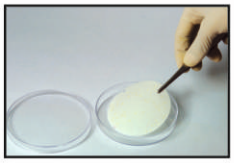
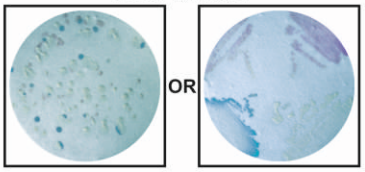


Figure 7-Transfer the disc to a sterile empty Petri plate or if desired paper disc can be placed on dry lid* of same plate & incubate in inverted position. * If lid has moisture wipe it with sterile cotton.

(The paper can be autoclaved and stored or saved in computer by scanning for further reference)

Final Results



(Quantitative method) (streak plate method)
Figure 8- Results after incubation at 35 to 37°C for 1 to 4 hrs

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