



HiDip TSA-R₂A Agar

HD040

For Microbial screening of food and water

Directions

Surfaces : Loosen cap and remove the HiDip slide from container. Aseptically remove the protective plastic cover from slide by taking care not to touch agar surfaces. Check for dehydration or contamination. Gently lower the slide and press agar to touch the test surface by bending the scull around the hinge line. Apply even and firm pressure for few seconds. Take care not to smudge agar over the test surface. Repeat procedure using the second agar surface on an area adjacent to the initial test side. Return the slide to the container and close tightly. Incubate in an up right position at indicated temperature.

Liquids : Loosen cap and remove the HiDip slide from the container. Aseptically remove the protective plastic cover from slide by taking care not to touch agar surfaces. Check for dehydration or contamination. Dip slide into test fluid so that agar surface becomes totally covered. (In case of inadequate liquid sample availability, pour sample over the surface of the slide). Allow to drain.

Return the slide to the container and close tightly. Incubate in an upright position at indicated temperature. Label the container for sample number, source, date and time etc. for reference.

Disposal : Used HiDip slides should be handled carefully, as it contains live microorganisms. These slides can be best disposed off either by or by immersing in a suitable disinfectant solution (i.e. dettol, phenyl etc.) over night or by autoclaving them after loosening the cap. An autoclave is not essential, a domestic pressure cooker will suffice.

Principle And Interpretation

Field of application:

Clinical, Water, Food.

HiDip slide is a handy tool for Isolation, enumeration and identification of specific bacteria in urine, food and water samples. These slides can also be used as touch slides for assessing the microbiological contamination of surfaces. HiDip slides are designed to monitor the microbial flora of liquids (e.g. urine, milk, water) and equipment surfaces in the clinical and food industries.

HiDip slide contains a double sided, hinged plastic scull containing two agar surfaces. The hinged scull allows easy touch against each test area during sampling. The surface area of scull is divided into ten units of one centimeter each to allow direct counting of microbial density per unit area.

Tryptone Soya Agar is recommended for cultivation of a wide variety of organisms. This medium is accordance with USP(4). Incubate slides at 30-35°C for 18-24 hours to observe cultural characteristics.

R₂A Agar is recommended for heterotrophic plate count of treated potable water using longer incubation period

Quality Control

Appearance

The HiDip slide containing combination of sterile TSA Medium and R₂A Agar on separate individual surfaces.

Colour

TSA - Light yellow coloured medium

R₂A Agar - Light yellow coloured medium

Quantity of medium

2.5ml of medium per surface

pH

TSA - 7.20 - 7.60

R₂A - 7.0 - 7.40**Cultural response**

Cultural characteristics observed after incubation at 35 - 37°C on TSA Medium and R₂A Agar for 24-72 hours. (For R₂A Agar samples from fields it is suggested to incubate further for upto 7 days to ascertain the absence of organisms.

Sterility test

Passes release criteria

Cultural Response

Organism	Growth on TSA medium	Growth on R ₂ A
<i>Bacillus subtilis</i> ATCC 6633	Luxuriant	-
<i>Bacteroides vulgatus</i> ATCC 8482	Luxuriant	-
<i>Candida albicans</i> ATCC 10231	Luxuriant	Luxuriant
<i>Escherichia coli</i> ATCC 25922	Luxuriant	Luxuriant
<i>Neisseria meningitidis</i> ATCC 13090	Luxuriant	-
<i>Staphylococcus aureus</i> ATCC 25923	Luxuriant	-
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant	-
<i>Aspergillus niger</i> ATCC 16404	-	-
<i>Micrococcus luteus</i> ATCC 10240	-	-
<i>Enterococcus faecalis</i> ATCC 29212	-	Luxuriant
<i>Salmonella Enteritidis</i> ATCC 13076	-	Luxuriant
<i>Salmonella Typhi</i> ATCC 6539	-	Luxuriant

Storage and Shelf Life

Store between 15-25°C. Use before expiry date on the label.

Reference

1. Technical data of M962 R₂A Agar and M290 TSA

Revision : 1 / 2011

**Disclaimer :**

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