



## HiDip™ TSA-MRS

HD047

### Intended Use:

Recommended for growth of wide variety of microorganisms and Lactobacilli.

### Composition\*\*

| Ingredients         | g / L   |
|---------------------|---------|
| <b>TSA Agar</b>     |         |
| Tryptone #          | 15.000  |
| Soya peptone        | 5.000   |
| Sodium chloride     | 5.000   |
| Agar                | 15.000  |
| Final pH ( at 25°C) | 7.3±0.2 |

\*\*Formula adjusted, standardized to suit performance parameters

# Equivalent to Pancreatic digest of casein

### MRS Agar

|                                |         |
|--------------------------------|---------|
| Proteose peptone               | 10.000  |
| HM Peptone B #                 | 10.000  |
| Yeast extract                  | 5.000   |
| Dextrose (Glucose)             | 20.000  |
| Tween 80 (Polysorbate 80)      | 1.000   |
| Ammonium citrate               | 2.000   |
| Sodium acetate                 | 5.000   |
| Magnesium sulphate             | 0.100   |
| Manganese sulphate             | 0.050   |
| Dipotassium hydrogen phosphate | 2.000   |
| Agar                           | 12.000  |
| Final pH ( at 25°C)            | 6.5±0.2 |

\*\*Formula adjusted, standardized to suit performance parameters

# Equivalent to Beef extract

### Directions

1. Surfaces : Loosen cap and remove HiDip™ slide from container taking care not to touch agar surfaces. Check for dehydration or contamination. Gently lower the slides and press agar to touch the test surface by bending the scull around the hinge line. Apply even and firm pressure for 15-20 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.

2. Liquids: Loosen cap and remove the HiDip™ slide from container. Check for dehydration or contamination. Dip slide into test fluid for upto 15-20 seconds 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. Tab it gently to remove excess fluid from surface. 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.

### Principle And Interpretation

Tryptone Soya Agar is recommended for cultivation of a wide variety of organisms. This medium is in accordance with USP.

Lactobacillus MRS Agar is recommended for cultivation of all *Lactobacillus* species.

### Type of specimen

Clinical samples- saliva secretions; Dairy samples

### Specimen Collection and Handling:

Refer Directions.

## Warning and Precautions

In Vitro diagnostic use. For professional use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

## Limitations:

Tryptone Soya Agar

1. This medium is general purpose medium and may not support the growth of fastidious organisms.

MRS Agar

1. Due to nutritional variation, some strains may show poor growth.

## Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

## Quality Control

### Appearance

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

### Colour

#### Colour of TSA medium

Light yellow coloured medium

#### Colour of MRS Agar

Dark amber coloured medium

### Quantity of medium

2.5 ml per surface

### Sterility Check

Passes

### pH of TSA medium

pH Range : 7.10-7.50

### pH of MRS Agar

pH Range : 6.30-6.70

### Cultural Response

Cultural characteristics observed after incubation at 35 - 37°C for 18 - 24 hours

| Organism   | Growth    |
|--|-----------|
| <b>TSA medium</b>  |           |
| <i>Bacillus subtilis subsp. spizizenii</i> ATCC 6633 (00003*)  | Luxuriant |
| <i>Bacteroides vulgatus</i> ATCC 8482                          | Luxuriant |
| <i>Candida albicans</i> ATCC 10231 (00054*)                    | Luxuriant |
| <i>Escherichia coli</i> ATCC 25922 (00013*)                    | Luxuriant |
| <i>Neisseria meningitidis</i> ATCC 13090                       | Luxuriant |
| <i>Staphylococcus aureus subsp. aureus</i> ATCC 25923 (00034*) | Luxuriant |

**MRS Agar**

|   |            |
|---|------------|
| <i>Lactobacillus casei</i> ATCC 9595              | luxuriant  |
| <i>Lactobacillus fermentum</i> ATCC 9338          | luxuriant  |
| <i>Lactobacillus leichmannii</i> ATCC 7830        | luxuriant  |
| <i>Lactobacillus plantarum</i> ATCC 8014          | luxuriant  |
| <i>Lactobacillus saki</i> ATCC 15521(00015)       | luxuriant  |
| <i>Lactobacillus lactis</i> ATCC 19435(00016*)    | luxuriant  |
| <i>Pediococcus pentosaceus</i> ATCC 33316(00158*) | luxuriant  |
| <i>Escherichia coli</i> ATCC 25922 (00013*)       | Inhibition |
| <i>Bacillus cereus</i> ATCC 11778(00001*)         | Inhibition |

Key : (\*) Corresponding WDCM numbers.

**Storage and Shelf Life**

On receipt store between 15-30°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

**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.

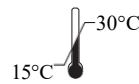
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**In vitro diagnostic  
medical device**



**Storage temperature**



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**CE Marking**



**Do not use if  
package is damaged**

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