

# Dextrose Tryptone Broth



Medium used for the cultivation and identification of mesophilic and thermophilic aerobic organisms.

## • CONTENTS (Liter)

|                              |        |
|------------------------------|--------|
| Tryptone                     | 10.0 g |
| Dextrose                     | 5.0 g  |
| Bromocresol Purple           | 0.04 g |
| Final pH = 6.9 ± 0.2 at 25°C |        |

## • PROCEDURE

Suspend 15.04 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

## • INTERPRETATION

Dextrose tryptone broth is a medium used for the cultivation and identification of mesophilic and thermophilic aerobic organisms. Tryptone provides nitrogen, vitamins and nutrients. Dextrose is a carbohydrate. Bromocresol purple is the pH indicator.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 37 ± 2°C for 18 - 48 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light greenish beige

### Prepared medium

Appearance: slightly opalescent

Color: purple

Incubation conditions: 37 ± 2°C / 18 - 48 hours

| Microorganism                 | ATCC  | Growth | Acid   |
|-------------------------------|-------|--------|--------|
| <i>Escherichia coli</i>       | 25922 | good   | yellow |
| <i>Enterococcus faecalis</i>  | 29212 | good   | yellow |
| <i>Klebsiella pneumoniae</i>  | 13883 | good   | yellow |
| <i>Staphylococcus aureus</i>  | 25923 | good   | yellow |
| <i>Pseudomonas aeruginosa</i> | 27853 | good   | -      |
| <i>Proteus mirabilis</i>      | 25933 | good   | yellow |

**• STORE**

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. APHA (1976) Compendium of Methods for the Microbiological Examination of Foods.

**• PACKAGE**

|   |       |
|---|-------|
| Cat. No : MB-D2151<br>Dextrose Tryptone Broth | 500 G |
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