

# Yeast Extract Peptone (YEP) Broth



Medium used for the cultivation and enumeration of *Agrobacterium* spp. and other soil microorganisms.

## • CONTENTS (Liter)

|                              |        |
|------------------------------|--------|
| Peptone                      | 10.0 g |
| Yeast Extract                | 10.0 g |
| Sodium Chloride              | 5.0 g  |
| Final pH = 7.0 ± 0.2 at 25°C |        |

## • PROCEDURE

Suspend 25.0 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

Yeast Extract Peptone (YEP) Broth is a medium used for the cultivation and enumeration of *Agrobacterium* spp. and other soil microorganisms. Peptone is a source of carbon, nitrogen and essential nutrients. Yeast extract provides vitamins and nutrients for the growth of *Agrobacterium* spp. Sodium chloride maintains the osmotic balance.

## • TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 25 - 30°C for 48 - 72 hours up to 5 days. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

### Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 25 - 30 °C / 48 - 72 hours up to 5 days

| Microorganism                    | ATCC  | Inoculum CFU | Growth |
|----------------------------------|-------|--------------|--------|
| <i>Agrobacterium tumefaciens</i> | 19358 | 50-100       | good   |
| <i>Escherichia coli</i>          | 25922 | 50-100       | good   |
| <i>Staphylococcus aureus</i>     | 25923 | 50-100       | good   |

## • 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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

## • REFERENCES

1. Tianyan Song, Claudia Toma, Noboru Nakasone and Masaaki Iwanaga. (2004). Aerolysin is activated by metalloprotease in *Aeromonas veronii* biovar *sobria* J Med Microbiol 53, 477-482

## • PACKAGE

|   |       |
|---|-------|
| Cat. No : MB-Y5003<br>Yeast Extract Peptone (YEP) Broth | 500 G |
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