

# Phenol Red Broth



Medium is used for the identification and determination of microorganisms on the basis of carbohydrate fermentation reactions.

## • CONTENTS (Liter)

Beef Extract	3.0 g
Sodium Chloride	5.0 g
Peptone	10.0 g
Phenol Red	0.018 g
Final pH = 7.4 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 18.02 G of powder in 1 L of distilled or deionized water. Add 5 - 10 g of carbohydrate. Heat to boiling until completely dissolved. Sterilize by autoclave at 118°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes. If necessary, insert sterile durham tubes.

## • INTERPRETATION

Phenol Red Broth is a medium used for the identification and determination of microorganisms on the basis of carbohydrate fermentation reactions. Beef extract and peptone provide carbon, nitrogen, vitamins and minerals. Sodium chloride maintains the osmotic balance. Phenol red is a pH indicator.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light pink

### Prepared medium

Appearance : clear to slightly opalescent

Color: red

Incubation conditions: 35 ± 2°C / 18 - 24 hours

Microorganism	ATCC	Growth
<i>Escherichia coli</i>	25922	good
<i>Salmonella typhimurium</i>	14028	good
<i>Staphylococcus aureus</i>	25923	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. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. Baron, E.J., L.R. Peterson, and S.M. Finegold. 1994. Bailey & Scott's diagnostic microbiology, 9th ed.
2. Murray, P.R., E.J. Baron, M.A. Tenover, and R.H. Tenover. 1995. Manual of clinical microbiology, 6th ed.
3. Holt, G.J., N.R. Krieg, P.H.A. Sneath, J.T. Staley, and S.T. Williams. 1994. Bergey's manual of determinative bacteriology, 9th ed.

**• PACKAGE**

Cat. No : MB-P1174 Phenol Red Broth	500 G
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