

Product Name : Phenol Red Agar

Medium for differentiating bacteria on the basis of fermentation reactions.

TYPICAL FORMULA (G/L)

Tryptone 10.0
Sodium Chloride 5.0
Agar 15.0
Phenol Red 0.018
Final pH = 7.4 ± 0.2 at 25°C.

DIRECTIONS

Suspend 30.02 G of powder in 1 L of purified water. Heat with frequent agitation to completely dissolve the powder. Autoclave at 121°C for 15 minutes. Aseptically add carbohydrate ,5-10 G/L, if desired. Mix thoroughly. Dispense into final tubes and allow to solidify in a slant position.

DESCRIPTION

Phenol Red Agar with added carbohydrate is well suited for the study of fermentation reactions of microorganisms.

QUALITY CONTROL

Inoculate the medium by stabbing into the butt and streaking the surface of the slant. If desired, inoculate obligate anaerobic bacteria into melted medium that has been cooled to 45°C. Allow the agar to solidify prior to incubation. Incubate at 36 ± 1°C for 4-48 hours (or anaerobically for 24-72 hours). Examine periodically for growth, acid production and gas formation.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: pink.

Prepared medium

Appearance: opalescent.

Color: red to orange-red.

Incubation conditions: 36 ±1°C / 4-48 hours.

Microorganism	ATCC	Growth	Color	Gas
<i>Escherichia coli</i>	25933	good	yellow	+
<i>Psuedomonas aeruginosa</i>	10145	good	yellow	-
<i>Proteus mirabilis</i>	25933	good	red	-
<i>Staphylococcus aureus</i>	25923	good	yellow	+

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STORAGE

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 2-6°C.

REFERENCES

1. Forbes, Sahm and Weissfeld. 1998. Bailey & Scott's diagnostic microbiology, 10th edition. Mosby, Inc., St. Louis, Mo.
2. Murray, Baron, Pfaller, Tenover and Tenover. (ed.). 1999. Manual of clinical microbiology, 7th edition. American Society for Microbiology, Washington, D.C.

PACKAGING

Cat. No : MB-P1308 Phenol Red Agar	500 G
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