

Yeast Extract Peptone (YEP) Agar



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
Agar	15.0 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 40.0 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 petri dishes.

• INTERPRETATION

Yeast Extract Peptone (YEP) Agar 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. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of medium using a sterile loop. 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-Y5002 Yeast Extract Peptone (YEP) Agar	500 G
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