

Terrific Broth



Medium used for the cultivation recombinant strains of *Escherichia coli*.

• CONTENTS (Liter)

Pancreatic Digest of Casein	12.0 g
Yeast Extract	24.0 g
Dipotassium Phosphate	9.4 g
Monopotassium Phosphate	2.2 g
Final pH = 7.2 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 47.6 G of powder in 1 L of distilled or deionized water. Add 4.0 mL of Glycerol supplement (MB-G1821). 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. Dispense in tubes.

• INTERPRETATION

Terrific Broth is a medium used for the cultivation recombinant strains of *Escherichia coli*. Pancreatic digest of casein is the carbon and nitrogen sources. Yeast extract provides vitamin B complex that stimulate bacterial growth. Dipotassium phosphate and Monopotassium phosphate are the buffering agents.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. 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 beige.

Prepared medium

Appearance: clear with no precipitate.

Color: light amber.

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

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i>	25922	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. Tartoff and Hobbs. 1987. Bethesda Research Laboratories Focus 9:12.
2. Sambrook, Fritsch and Maniatis. 1989. Molecular cloning: a laboratory manual, 2nd ed. Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.

• PACKAGE

Cat. No : MB-T1556 Terrific Broth	500 G
--------------------------------------	-------