

Terrific Broth



Medium used for the cultivation and enumeration of 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. Pour into tubes.

• INTERPRETATION

Terrific Broth is a medium used for the cultivation and enumeration of 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. Phosphates are the buffering agents. Glycerol is added as a carbon source in the medium.

• TECHNIC

Inoculate the specimen with stab 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 beige

Prepared medium

Appearance: slightly opalescent, may have slight precipitates

Color: amber

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

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i> (C600)	23724	50-100	good
<i>Escherichia coli</i> (HB101)	33694	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 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
--------------------------------------	-------