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TECHNICAL INFORMATION

Catalog Number: 1012017

Terrific Broth

Description: A buffered enriched medium for the propagation of recombinant *E. coli* strains. The medium was developed by Tartoff and Hobbs to improve yield in plasmid bearing *E. coli*. Recombinant strains have an extended growth phase in the medium. The addition of extra Tryptone and Yeast Extract in the medium allows higher plasmid yield per volume. Glycerol is used as a carbohydrate source in this formulation. Unlike glucose, glycerol is not fermented to acetic acid. Terrific Broth has a higher concentration of Dibasic Potassium Phosphate than Terrific Broth, Modified (Catalog Number 1010417)

Approximate formula in g/L:

Tryptone	12.0 g	Potassium phosphate, Monobasic	2.3 g
Yeast extract	24.0 g	Potassium phosphate, Dibasic	12.5 g

pH 7.0 ± 0.2

Preparation:

Dissolve 50.8 g of the medium in 900 ml of deionized or distilled water. Add 8 ml of 50% glycerol. Mix well until evenly dispersed. Heat with frequent agitation and boil for one minute. Adjust final volume to 1000 ml. Sterilize in autoclave at 121°C (15 lbs psi) for 15 minutes. Cool to room temperature. Store at 4°C.

Typical Microbiology:

The following typical results were obtained in the performance of the medium from type cultures after incubation at a temperature of 37°C and observed after 24 hours.

Organism	Growth
<i>Escherichia coli</i> ATCC 23724, ATCC33694, ATCC33849, ATCC 39403, ATCC 47014, ATCC 53868	Satisfactory

Availability:

Catalog Number	Description	Size
1012017	Terrific Broth	500 g
1010417	Terrific Broth, Modified	500 g