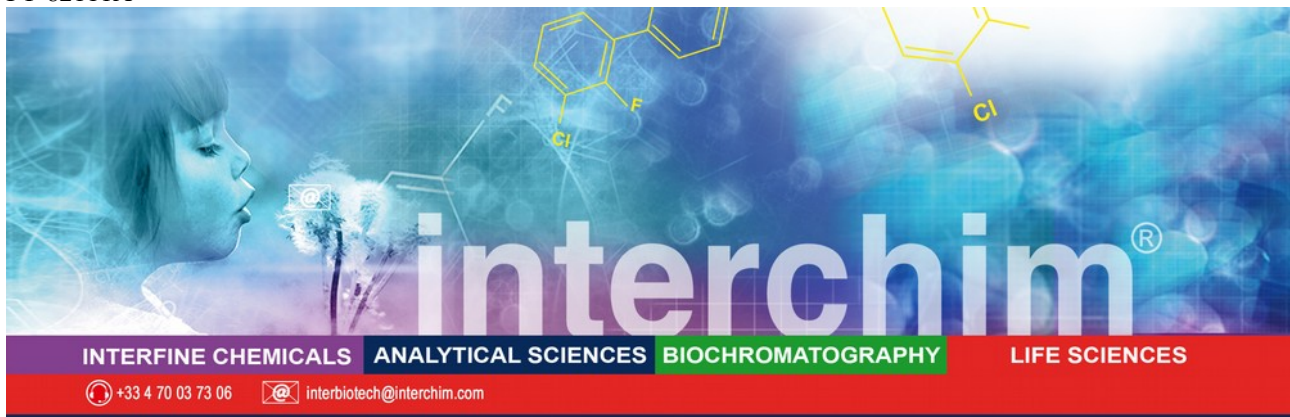


FT-82111A



## Terrific Broth

*Medium used with glycerol for the cultivation of recombinant strains of E.coli*

### Product Description

<b>Name :</b>	<b>Terrific Broth</b>
<b>Catalog Number :</b>	82111A, 500g 82111C, 5 Kg 82111D, 10 Kg

**Storage** 20-25°C. Once opened keep powdered medium closed to avoid hydration.

#### FORMULA:

Yeast Extract:	24.0g/L	Dipotassium Phosphate:	12.54g/L
Tryptone :	12.0g/L	Monopotassium Phosphate:	2.31g/L

The pH after preparing the medium and at room temperature:  $7.2 \pm 0.2$

### Directions for use

#### Guidelines for use :

TERRIFIC BROTH is a medium which supports a high cell density and, in the case is formulated for optimum growth of E.coli, maintains growth in the logarithmic phase for a long time. As a result it yields a greater number of recombinant proteins and plasmic DNA. In some circumstances it substitutes LB Broth (Lennox) used in genetic studies. Tryptone provide nitrogen, vitamins, minerals and amino acids essential for growth Yeast extract is source of vitamins, particularly the B-group. Potassium phosphates act as a buffer system to prevent cell death. The source of carbohydrates and carbon is glycerol that is not fermented to acetic acid as glucose and does not lead to confusing results.

#### Preparation :

Suspend 50.8 grams of the medium in 900 ml of distilled water .Mix well.  
Add 4 ml of glycerol and adjust to a final volume of 1000 ml. and dissolve by heating with frequent agitation.  
Boil for one minute until complete dissolution.  
Dispense into appropriate containers and sterilize in autoclave at 121°C for 15 minutes.  
The prepared medium should be stored at 2-8°C.  
The color of the prepared medium is amber.  
The dehydrated medium should be homogeneous, free-flowing and beige in color.  
If there are any physical changes, discard the medium.



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### Physical and Chemical Test :

Appearance:	fine powder
Solubility(at 3.5%)	clear, amber, without rests
Color:	beige
Color of the prepared medium:	amber

### Microbiological Test :

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of  $35 \pm 2^{\circ}\text{C}$  and observed after 18-24 hours.

Microorganisms	Growth
Escherichia coli ATCC 23724	Good
Escherichia coli ATCC 33694	Good
Escherichia coli ATCC 33849	Good
Escherichia coli ATCC 53868	Good

### Literature :

Joseph Sambrook, David W .Russell. The condensed protocols from molecular cloning: a laboratory manual.

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.  
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06  
[Order on-line](#) or [Contact](#) your local distributor

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