

## **Product Name & Product No.**

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Product Name:

**LB Broth, easy pack**

Product No.: **21100**

### **Spec.**

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#### **For Microbiology Culture**

Luria-Bertani Broth

12.5g for 500mL Soln.

#### **Components follow:**

Tryptone 5g

Yeast Extract 2.5g

NaCl 5g

pH: 7.0±0.2

## **Description**

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LB Broth Powder Growth Media is a pre-mixed, pre-buffered homogenous dry powder formulation. The powder can be added to water for consistent batch to batch liquid media. Pre-mixed LB Broth is easy to use and saves both time and hassle of preparing formulation from raw materials. It forms a clear, light yellow media after autoclaving. Final pH is 7.0±0.2.

Because our media is buffered at pH 7.0±0.2, higher and more consistent yields of DNA are obtained compared to standard media. Media powders and agars can be added to water for consistent batch to batch liquid media or preparation of agar plates. All media components are guaranteed BSE-free.

## **Uses**

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LB Broth is used for the cultivation and maintenance of recombinant strains of *Escherichia coli* for genetic and molecular

studies and may be used for routine cultivation of not particularly fastidious microorganisms.

It is nutritionally rich medium designed for growth of pure cultures of recombinant strains. *E. coli* grows quicker because the Tryptone and Yeast extract supply essential growth factors such as nitrogen, carbon, sulfurs, minerals and vitamins, particularly B group and other metabolites that the microorganism would otherwise have to synthesize. Sodium chloride provides sodium ions for membrane transport and also maintains the osmotic equilibrium of the medium.

## **Preparation Instructions**

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1. Suspend 12.5 g of powder in 500 mL of distilled or deionized water.
2. Mix until completely dissolved.
3. Dispense into appropriate containers.
4. Sterilize in autoclave at 121°C for 20 minutes.
5. The prepared medium should be stored at 2-8°C. The color is amber, slightly opalescent.
6. The dehydrated medium should be homogeneous, free-flowing and beige in color. If there are any physical changes, discard the medium.

Store at Room Temp.