

## Media Type - Luria broth agar

Luria broth (LB) agar contains the generic components such as peptone, yeast extract, sodium chloride (NaCl) and agar which is useful to support microbial growth. The highly nutritional yet simplistic composition of this agar, makes it a versatile media for cultivating bacteria for molecular biology applications.

**Primary use:** Media for the cultivation and maintenance of *Escherichia coli*.

**Technical characteristics:**

**The typical medium composition:**

Typical formulation:	g/ltr
Phytone peptone	10
Yeast extract	5
Sodium chloride	5
Agar	15

Fresh pH  $7.0 \pm 0.2$

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**Applications:** LB Agar is a medium used for general growth and maintenance of *Escherichia coli* strains. This medium is typically used in molecular biology procedures for cultivation of recombinant strains of *E. coli* for the detection of phage or plasmid transformed bacteria.

**Appearance:** The prepared media is pale straw to straw in colour with a slightly opaque appearance.

### Organisms and morphology:

Microorganism	Observational appearance
<i>Escherichia coli</i>	Off-white colonies

**Typical incubation parameters:** Incubation conditions can vary depending on the specific strain requirements. Typically, incubation range are within 35-37 °C for 18-24 hours.

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