

Identification	Plated Media – Luria Bertani Agar			Issue
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Luria Bertani Agar

The LB Agar (Luria Bertani, Miller) is a nutritionally rich media used for maintaining and cultivating recombinant strains of Escherichia coli. The Miller formulae are designed for growth of pure cultures of recombinant strains. The media provide all of the nutritional requirements of organisms that have been derived from Escherichia coli K12, which are deficient in B vitamin production. Escherichia coli grows more rapidly than in conventional media, because these media provide the cells with amino acids, nucleotide precursors, vitamins and other metabolites that the microorganism would otherwise have to synthesize.

Typical Formula / Litre Agar

Formula	g/litre
Tryptone	10 g
Yeast Extract	5 g
Sodium Chloride	10 g
Agar	15 g

Growth Promotion Testing

Test strains	ATCC No	Incubation temperature	Incubation time
E. coli	XL1-Blue strain	37°C	24 h

To pass test growth obtained must not differ from more than a factor of 2 (two) from growth of the medium from a previously tested and approved medium.

Additional Quality Control

Test	Specification
pH at 25 °C	7,0 ± 0,2 in 20-25°C
Appearance	Light straw to straw coloured gel
Negative Control	No growth after 3-5 days

Packaging and Storage

Type of container	Storage	Sustainable in unopened containers
9cm plates (10x10)	Dark and in room-temp.	6 months