

**LURIA AGAR****TM 407**

For maintenance and propagation of *Escherichia coli*

Composition

Ingredients	Gms/Ltr.
Agar	15.00
Tryptone	10.00
Sodium chloride	5.00
Yeast extract	5.00

* Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight.

Instructions for use

Dissolve 35gms in 1000ml distilled water. Gently heat to boiling with gentle swirling and dissolve the medium completely. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes. Cool to 45-50°C and dispense into sterile Petri plates.

Appearance: Beige colour, clear gel

pH (at 25°C): 7.0 ± 0.2

Principle

LURIA AGAR is used for maintenance and propagation of *Escherichia coli*. This medium is the standard nutrient media for the propagation, protein expression of *Escherichia coli* strains used in molecular studies. This medium has nutrient rich formulation which provides peptides, vitamins and trace elements. Sodium chloride provides essential electrolytes and also helps to maintain the osmotic balance of the medium. Agar is used as a solidifying agent.

Interpretation

Cultural characteristics observed after inoculating (10^3 CFU/ml), on incubation for 18– 24 hours at 35°C.

Microorganisms	ATCC	Inoculum (CFU/ml)	Growth
<i>Escherichia coli</i>	25922	10^3	Luxuriant
<i>Escherichia coli</i>	11775	10^3	Luxuriant

References

1. Miller, J. H. Experiments in molecular genetics. Cold Spring Harbor Laboratory. Cold Spring Harbor, New York. (1972).