PRODUCT CODE: 414753

Luria Broth Base (Dehydrated Culture Media) for microbiology

Preparation

Suspend 25 grams of the medium in one litre of distilled water. Mix well 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 colour is amber, slightly opalescent. The dehydrated medium should be homogeneous, free-flowing and beige in colour. If there are any physical changes, discard the medium.

Uses

LURIA BROTH (Miller's LB Broth) Luria Broth (Miller's LB Broth) is based on LB Medium as described by Miller. It is suitable for the growth and maintenance of *E. coli* strains used in molecular microbiology procedures. It is a nutritive 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 supplies essential electrolytes for transport and osmotic balance. In Luria Broth (Miller's LB Broth) sodium chloride level is five times higher than in LB Broth (Lennox) and twenty times higher than in Luria Broth (Miller's Modification). This allows selecting the optimal salt concentration medium for a specific strain.

Composition

See in Data Sheet (TDS).

Microbiological Test

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 35 ± 2°C and observed after 18 - 24 hours.

Microorganism	Growth
Escherichia coli ATCC 23724	Good
Escherichia coli ATCC 47014	Good
Escherichia coli ATCC 33694	Good
Escherichia coli ATCC 33849	Good
Escherichia coli ATCC 39403	Good

Storage

Once opened keep powdered medium closed to avoid hydration.

JM180914

N.I.F. ES B08010118 – Reg. Mercantil de Barcelona, hoja B/28.883 –
Sistemas de Gestión certificados según ISO 9001, ISO 14001 y OHSAS 18001

PanReac Química S.L.U.
C/ Garraf, 2 • Polígono Pla de la Bruguera • E-08211 Castellar del Vallès (Barcelona) Spain
Phone + 34 937 489 400 • Fax + 34 937 489 401 • info.es@itwreagents.com • www.itwreagents.com