Product Data Sheet

LURIA BERTANI AGAR, MILLER (MILLER LURIA BERTANI AGAR)
Product No. GB-DCM-00432-1A

INTENDED USE
For cultivation and maintenance of recombinant strains of Escherichia coli.

PRODUCT SUMMARY
Luria Bertani Agar is prepared as described by Lennox for cultivation and maintenance of recombinant strains of Escherichia coli. Luria Bertani Agar, Miller is slightly different with double amount of sodium chloride. The media is nutritionally rich for the growth of pure cultures of recombinant strains. Strains derived from Escherichia coli K12 are deficient in Vitamin B synthesis are further modified by specific mutation to create auxotrophic strains and are therefore unable to grow on nutritionally deficient media.

Product Specifications

Ingredients	Gms / Ltr
Tryptone	10.000
Yeast extract	5.000
Sodium chloride	10.000
Agar	5.000

PRINCIPLE
Tryptone provides peptides and peptones while Vitamin B complex is provided by yeast extract. Sodium chloride provides sodium ions for membrane transport and also maintains the osmotic equilibrium of the medium.

INSTRUCTION FOR USE
- Dissolve 40 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Dispense as desired. Mix well and pour into sterile Petri plates.

GOSLAR BIOTECH
Your Partner in Sera

UALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Yellow to amber coloured, clear to slightly opalescent gel forms in Petri plates.

pH (at 25°C) : 7.5± 0.2

Microorganism	Strains	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	luxuriant	>=70%	35-37°C	18-24 Hours
Escherichia coli	23724	50-100	luxuriant	>=70%	35-37°C	18-24 Hours
Escherichia coli DH5 alpha	1652	50-100	luxuriant	>=70%	35-37°C	18-24 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.

Goslar Biotech, 255A Barking Road East Ham, London E6 1LB, United Kingdom
Email: info@goslarbiotech.com, Website: www.goslarbiotech.com