TMV 377 – LURIA BROTH (VEG.)

INTENDED USE

For the cultivation and maintenance of recombinant strains of *Escherichia coli.*

PRODUCT SUMMARY AND EXPLANATION

These media are prepared by replacing Casein enzymic hydrolysate with Veg hydrolysate which is free of BSE/ TSE risks. These media are the modification of Luria Broth which are prepared as described by Lennox for cultivation and maintenance of recombinant strains of *Escherichia coli*. The media are nutritionally rich for the growth of pure cultures of recombinant strains.

COMPOSITION

Ingredients	Gms / Ltr
Veg hydrolysate	10.000
Yeast extract	5.000
Sodium chloride	5.000

PRINCIPLE

This medium consists of Veg hydrolysate which provides peptides and peptones while Vitamin B complex is provided by yeast extract. Sodium chloride provides sodium ions for the membrane transport and maintains osmotic equilibrium of the medium.

INSTRUCTION FOR USE

- Dissolve 20.0 grams in 1000 ml purified/distilled water.
- Heat to dissolve the medium completely.
- Dispense as desired and Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow coloured, homogeneous, free flowing powder.
Appearance of prepared medium : Yellow to amber coloured clear solution in tubes.
pH (at 25°C) : 7.2 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Luxuriant	35-37°C	18-24 Hours

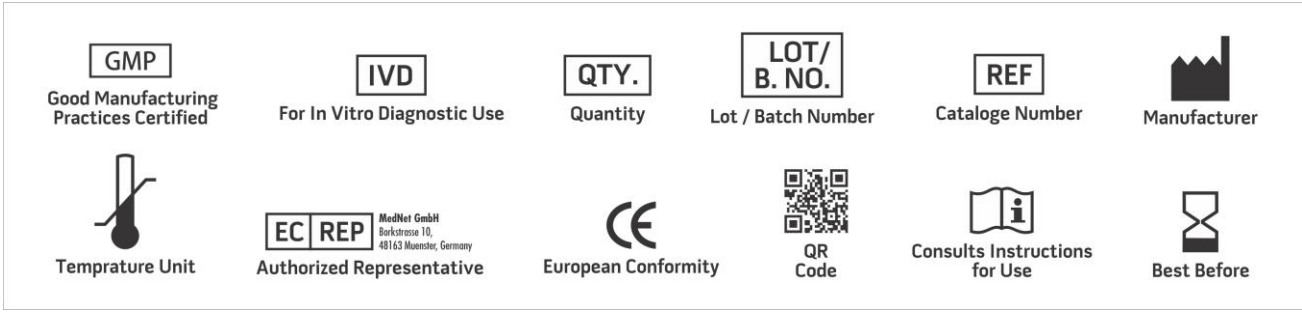
Escherichia coli	23724	50-100	Luxuriant	35-37°C	18-24 Hours

PACKAGING:
In pack size of 500 gm bottles.

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.

REFERENCES
1. Lennox E.S., 1955, Transduction of Linked Genetic Characters of the host by bacteriophage P1., Virology, 1:190.
2. Atlas R.M., 1993, Handbook of Microbiological Media, Ed. by Parks L., CRC Press, Inc.



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.
***For Lab Use Only**
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