TM 764 – LIVER BROTH

INTENDED USE

For examination of food for Saccharolytic, putrefactive, mesophilic and thermophilic anaerobes.

PRODUCT SUMMARY AND EXPLANATION

Scarr recommended Liver Broth for the examination of Canners sugar for hydrogen swells caused by thermophilic anaerobes and also for maintaining pure cultures of aerobes and anaerobes.

COMPOSITION

Ingredients	Gms / Ltr
Liver, infusion from	23.000
Peptic digest of animal tissue	10.000
Liver tissues (extracted)	30.000
Dipotassium phosphate	1.000

PRINCIPLE

This medium contains liver particles which support luxuriant growth for saccharolytic or putrefactive mesophilic and thermophilic anaerobes. A 20% w/v solution of the sugar steamed for 30 minutes is inoculated into Liver Broth, sealed with agar. The standard proposed was a maximum of 1 positive tube in six tubes, with 20 ml inocula and incubated for 72 hours at 56°C. Some organisms like *Clostridium thermosaccharolyticum* produces gas which often pushes the agar plug towards the top of the tube and some organisms digest the solid liver tissues. The medium should be used on the same day of preparation as the stored medium may absorb the air and then re-steaming is necessary which darkens the medium.

INSTRUCTION FOR USE

- Dissolve 64 grams in 1000 ml distilled water.
- Soak for 15 minutes with occasional stirring. Dispense in 18 mm diameter tubes to a depth of 50 mm so that bottom of the tube is filled with liver tissues.
- Sterilize by autoclaving at 10 psi pressure (115°C) for 20 minutes.
- Cool, inoculate and seal with a layer of sterile 2% agar solution.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Brown coloured granules.

Appearance of prepared medium : Medium amber coloured, clear to slightly opalescent supernatant over insoluble granules.

pH (at 25°C) : 6.8 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

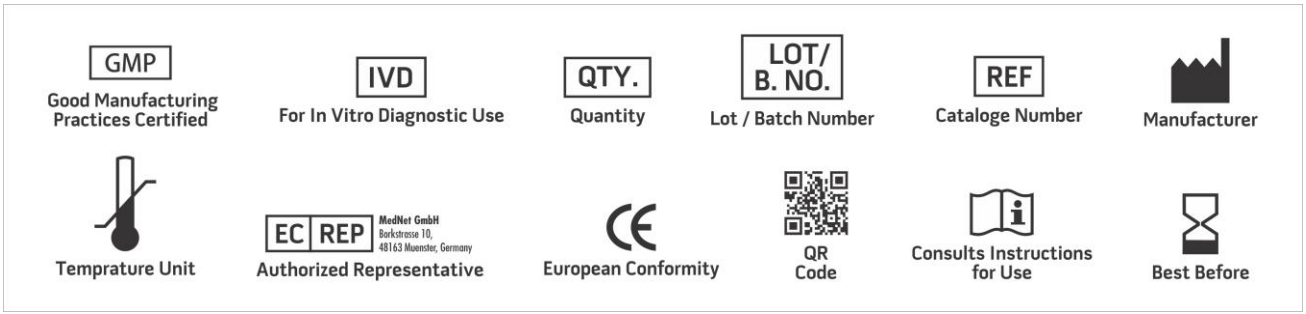
Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Cl.thermosaccharolyticum	7956	50-100	Luxuriant	55-57°C	48-72 Hours

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. Scarr M. P., 1958, DSIR, Proc. 2nd Internat. Symp. Food Microbiol., 1957, HMSO London, pp-29.



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