

TM 767 – LIVER MEAT INFUSION AGAR

INTENDED USE

For enumeration of sulphite reducing Clostridia and *Clostridium perfringens* in water and milk.

PRODUCT SUMMARY AND EXPLANATION

Anaerobic bacteria live in an oxygen-free environment. Some anaerobic bacteria actually die if oxygen is present, while others fail to grow and multiply.

COMPOSITION

Ingredients	Gms / Ltr
Meat liver infusion powder	20.000
Dextrose	0.750
Starch	0.750
Sodium sulphite	1.200
Ferric ammonium citrate	0.500
Sodium carbonate	0.670
Agar	11.000

PRINCIPLE

This medium contains Meat liver infusion which provides adequate degree of anaerobiosis besides provision of rich supply of nutrients, enabling even strict and fastidious anaerobes to grow well. *Clostridium* species reduce sulphite present in the medium to hydrogen sulphide (H₂S), which is indicated by blackening due to the presence of iron salt. The agar medium is inoculated either by pour plate method or by surface spreading methods.

INSTRUCTION FOR USE

- Dissolve 34.87 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15psi pressure (121°C) for 15 minutes.
- Medium can be used in tubes or plates as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to light brown homogeneous free flowing powder.
Appearance of prepared medium	: Brown coloured opalescent gel with suspended particles forms in Petri plates.
pH (at 25°C)	: 7.6 ± 0.2

INTERPRETATION

Cultural characteristics observed under anaerobic condition after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	H ₂ S	Incubation Temperature	Incubation Period
<i>Clostridium perfringens</i>	12924	50-100	Luxuriant	>=70%	Positive	35-37°C	18-48 Hours
<i>Proteus mirabilis</i>	25933	50-100	Luxuriant	>=70%	Negative or weakly positive	35-37°C	18-48 Hours
<i>Clostridium tetani</i>	10779	50-100	Luxuriant	>=70%	Positive	35-37°C	18-48 Hours
<i>Clostridium botulinum</i>	25763	50-100	Luxuriant	>=70%	Positive	35-37°C	18-48 Hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
<i>Bacteroides vulgatus</i>	8482	50-100	Good-luxuriant	>=0%	Negative	35-37°C	18-48 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. Alcamo E. I. , 2001, Fundamentals of Microbiology, 6th Ed., Jones and Bartlett Publishers.



GMP Good Manufacturing Practices Certified	IVD For In Vitro Diagnostic Use	QTY. Quantity	LOT/ B. NO. Lot / Batch Number	REF Catalogue Number	 Manufacturer
 Temperature Unit	EC REP MedNet GmbH Buckstrasse 10, 48163 Muenster, Germany Authorized Representative	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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