

**LIVER MEAT EXTRACT****TM 765****INTENDED USE**

For cultivation of fastidious anaerobes.

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
Agar	11.000

*Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight.

PRODUCT SUMMARY AND EXPLANATION

Liver Meat Agar is used for cultivation of fastidious anaerobic microorganisms. Anaerobic bacteria live in an oxygen-free environment. Some anaerobic bacteria actually die if oxygen is present, while others fail to grow and multiply. This medium is well suited to support the growth of anaerobic microorganisms, especially *Clostridium* spp.

PRINCIPLE

The nutrient basis of meat and liver tissue maintains an adequate degree of anaerobiosis in the culture medium and also provides a rich supply of nutrients. It thus ensures that even strict and fastidious anaerobes grow well. The sulfite present in the culture medium, is reduced to H₂S by some anaerobes (e.g. many *Clostridium* species); this is indicated by blackening due to the presence of iron salt.

INSTRUCTIONS FOR USE

1. Dissolve 34.2 grams in 1000 ml distilled water.
2. Heat to boiling to dissolve the medium completely.
3. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
4. Cool at 40 - 50°C and pour as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance Dehydrated powder: Light yellow to light brown homogeneous free flowing powder.

Appearance of the prepared medium: Brown coloured opalescent gel with suspended particles.

pH (at 25°C): 7.6±0.2



PRODUCT DATA SHEET

CULTURAL RESPONSE

Cultural characteristics observed under anaerobic condition, after an incubation at 35-37°C for 18-48 hours.

Organism	ATCC	Inoculum (CFU/ml)	Growth	H ₂ S
<i>Clostridium perfringens</i>	12924	10 ³	luxuriant	Positive
<i>Clostridium tetani</i>	10779	10 ³	luxuriant	Positive
<i>Escherichia coli</i>	25922	10 ³	luxuriant	Negative
<i>Proteus mirabilis</i>	25933	10 ³	luxuriant	Negative or weakly positive

STORAGE & STABILITY

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°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.

REFERENCES

1. Alcamo E. I., 2001, Fundamentals of Microbiology, 6th Ed., Jones and Bartlett Publishers.