

TM 1544 – FREY MYCOPLASMA BROTH BASE

INTENDED USE

For cultivation of avian Mycoplasma.

PRODUCT SUMMARY AND EXPLANATION

Poultry flocks are susceptible to respiratory infections from a variety of agents, including *Mycoplasmas*. The common types of infections from *Mycoplasma* are chronic respiratory diseases, air sacculitis, sinusitis and synovitis. In many cases, however the infection may be identified only through serological and culture methods. *Mycoplasmas* require very complex media that complicates identification procedures in laboratory diagnosis. Frey et al formulated Mycoplasma Broth with horse serum for the cultivation of avian *Mycoplasma*. *Mycoplasma gallisepticum*, *Mycoplasma synoviae*, *Mycoplasma meleagridis* are few of the *Mycoplasma* species which cause infections in birds.

COMPOSITION

Ingredients	Gms / Ltr
Tryptone	7.500
Soya peptone	2.500
Yeast extract	5.000
Sodium chloride	5.000
Potassium chloride	0.400
Magnesium sulphate	0.200
Disodium hydrogen phosphate	1.600
Potassium dihydrogen phosphate	0.100

PRINCIPLE

The medium consists of Tryptone, soya peptone and yeast extract which are the sources of organic nitrogen, carbon, sulphur, Vitamin B and trace elements. Potassium chloride, magnesium chloride and magnesium sulphate provide essential ions. Addition of inactivated horse serum serves as a source of growth factors including lipid compounds and cholesterol, a stimulant of growth.

INSTRUCTION FOR USE

- Dissolve 22.30 grams in 900 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and add 100 ml of sterile inactivated (at 56° C for 30 minutes) Horse Serum.
- Mix well and dispense into sterile tubes or flasks as desired.

QUALITY CONTROL SPECIFICATIONS



Appearance of Powder : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Light yellow coloured, clear to slightly opalescent solution.
pH (at 25°C) : 7.7 ± 0.2

INTERPRETATION

Cultural characteristics observed in moist aerobic or anaerobic atmosphere with 5-10% carbon dioxide with added sterile inactivated Horse Serum after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Good-luxuriant	35-37°C	36-72 Hours
<i>Mycoplasma gallisepticum</i>	19610	50-100	Luxuriant	35-37°C	36-72 Hours
<i>Mycoplasma synoviae</i>	25204	50-100	Luxuriant	35-37°C	36-72 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

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4. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
5. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
6. Jordan F. T. W., Pattison M., Alexander D. J., Faragher T., (Eds.), 2001, Poultry diseases, 5th Ed., Philadelphia, Pa: WB Saunders.
7. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.



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 Authorized Representative <small>MedNet GmbH Buckstrasse 10, 48163 Münster, Germany</small>	 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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