

CM 20734 – 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 22.30grams 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 |
|--------------------------|-------|-------------------|----------------|------------------------|-------------------|
| Escherichia coli | 25922 | 50-100 | Good-luxuriant | 35-37°C | 36-72 Hours |
| Mycoplasma gallisepticum | 19610 | 50-100 | Luxuriant | 35-37°C | 36-72 Hours |
| Mycoplasma synoviae | 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.




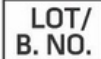








DISPOSAL

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.



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|  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 Muenster, 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 LabUse Only

