

TM 1998 – BYE AGAR

INTENDED USE

For the cultivation of *Mycoplasma* or Pleuropneumonia like organisms and L-forms of bacteria.

PRODUCT SUMMARY AND EXPLANATION

Mycoplasmas (mollicutes) are the smallest free-living microorganisms. Earlier *Mycoplasmataceae* were given the general title of pleuropneumonia like organism (PPLo), because of similarities to *Mycoplasma mycoides* (subsp. *mycoides*), the causative agent of bovine pleuropneumonia. BYE media are simple media developed for cultivation and routine studies of distribution, habitat and possible pathogenesis of *Mycoplasma* - Pleuropneumonia like organisms and L-forms of bacteria by Barile, Yaguchi and Eveland. These media can be used for isolation of PPLOs from urethritis, penile ulcerations and cervical specimens and L-forms of *Corynebacterium*, *Neisseria*, and *Streptococcus*. These are also used for detecting PPLo contamination of tissue culture and cell-lines and for membrane filter work.

Inoculations are made in duplicates. One set is incubated aerobically while the other anaerobically for 48 hours or more. Usually growth occurs within 3-5 days; however, negative results are reported after 10 days. Anaerobic conditions are most important for the first 3 days while secondary transfers can be incubated aerobically.

COMPOSITION

Ingredients	Gms / Ltr
Proteose peptone	10.000
Calf brain, infusion from	200.000
Beef heart, infusion from	250.000
Dextrose	2.000
Sodium chloride	5.000
Disodium phosphate	2.500
Yeast extract	2.000
Agar	13.000

PRINCIPLE

BYE Agar contains brain and heart infusion along with yeast extract, which provide carbon, nitrogen, vitamins and other growth factors required for the metabolism of *Mycoplasma* - Pleuropneumonia like organisms.

INSTRUCTION FOR USE

- Dissolve 52 grams in 850 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 50°C and aseptically add 150 ml of sterile human or animal blood or serum.
- Mix gently and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured, clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 7.9±0.2



INTERPRETATION

Cultural characteristics observed after incubation with added serum under humidified anaerobic conditions.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Mycoplasma bovis</i>	25523	50-100	Good-luxuriant	>=50%	35-37°C	5-10 Days
<i>Mycoplasma gallinarium</i>	19708	50-100	Good-luxuriant	>=50%	35-37°C	5-10 Days
<i>Mycoplasma pneumoniae</i>	15531	50-100	Good-luxuriant	>=50%	35-37°C	5-10 Days
<i>Streptococcus pneumoniae</i>	6303	50-100	Good-luxuriant	>=50%	35-37°C	5-10 Days

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

- Murray P.R., Baron E. J., Tenover F.C., Tenover R.H.(Eds.),1995, Manual of Clinical Microbiology, 6th Ed., ASM Press.
- Collee J.G, Fraser A.G., Marmion B.P., Simmons. A (Eds.), 1996, Mackie and McCartney Practical Medical Microbiology, 14th Ed, Churchill Livingstone.
- Barile, Yaguchi, Eveland, 1958, Am. J. Clin. Path. 30:171.
- Barile, 1962, National Cancer Institute Monograph, No.7: 5.5. Barile, 1962, J. Bacteriol., 83:430

 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 Birkstrasse 10 48143 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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