

TM 235 – PPLO BROTH BASE W/ CV (MYCOPLASMA BROTH BASE W/ CV)

INTENDED USE

For enrichment of Mycoplasma species (PPLO) from clinical samples and mixed cultures.

PRODUCT SUMMARY AND EXPLANATION

PPLO Media were described by Morton, Smith and Leberman. It was used in a study of the growth requirements of Mycoplasma, along with the identification and cultivation of this organism. Pivotal information regarding Mycoplasma has been documented by Sabin. Hayflick et al have reported the information regarding the cultivation of Mycoplasma. For the cultivation of Mycoplasma, the medium ingredients and all the supplements should be free of any toxic substances even in small amounts. Many Mycoplasma require serum for their good growth and also presence of antibiotic is necessary to prevent the growth of contaminating organisms.

COMPOSITION

Ingredients	Gms / Ltr
Beef heart, infusion from	250.000
Peptic digest of animal tissue	10.000
Sodium chloride	5.000
Crystal violet	0.010

PRINCIPLE

The medium consists of Crystal violet and potassium tellurite which inhibits many gram-negative and gram-positive bacteria.

INSTRUCTION FOR USE

- Dissolve 21.0 grams in 700 ml 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°C and aseptically add 2.85 ml of 1% Potassium Tellurite along with 300 ml Horse serum or 10 vials of Mycoplasma Enrichment Supplement.
- Mix well and dispense into sterile test tubes. 25% Ascitic fluid can be used instead of Horse serum.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured may have purple tinge, clear solution in tubes. clear solution in tubes.
pH (at 25°C)	: 7.8 ± 0.2

INTERPRETATION

Cultural characteristics observed in presence of 10% Carbon dioxide with added 1% Potassium tellurite, 1% Horse serum and Mycoplasma Enrichment Supplement after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Mycoplasma bovis</i>	25523	50-100	Good-luxuriant	22-35°C	48 Hours
<i>Mycoplasma gallinarum</i>	19708	50-100	Good-luxuriant	22-35°C	48 Hours
<i>Mycoplasma pneumoniae</i>	15531	50-100	Good-luxuriant	22-35°C	48 Hours
<i>Streptococcus pneumoniae</i>	6303	50-100	Good-luxuriant	22-35°C	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. Morton, Smith and Leberman, 1951, Am. J. Syphilis Gonorrh. Veneral Diseases, 35: 361.
2. Morton and Lecce, 1953. J. Bacteriol., 66:646.
3. Chanock, James, Fox, Turner, Mufso and Hayflick, 1962, Soc. Exp. Biol. Med., 110:884.
4. Craven, Wenzel, Calhoun, Hendley, Hamory and Gwaltney, 1976, J. Clin. Microbiol., 4:225.
5. Gregory and Cundy, 1970, Appl. Microbiol., 19:268.
6. Sabin, 1941, Bacteriol. Rev., 5:1, 331.
7. Hayflick and Chanock, 1965, Bacteriol. Rev., 29:185.

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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