

## TM 794 – PPLO BROTH BASE W/O CV (MYCOPLASMA BROTH BASE W/O CV)

### INTENDED USE

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

### PRODUCT SUMMARY AND EXPLANATION

PPLO Broth without crystal violet is prepared according to the formula described by Morton and Lecce. Crystal violet is omitted from this formula due to its inhibitory action on some *Mycoplasma*. It has been used for the cultivation of *Mycoplasma* for research studies. 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. Mostly the *Mycoplasma* species are aerobic or facultatively anaerobic but some are microaerophilic. Few are anaerobic saprophytic *Mycoplasma* which grow best at 22-35°C while pathogenic strains grow at 35°C.

### COMPOSITION

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

### PRINCIPLE

This medium consists of beef heart, infusion from which provides nitrogen and carbon source, long chain amino acids, vitamins, and other essential nutrients. Sodium chloride maintains the osmotic balance of these formulations.

### INSTRUCTION FOR USE

- Dissolve 21.0 grams in 700 ml purified/ distilled water.
- Heat is necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and aseptically add 300 ml Horse serum.
- If crystal violet is used as the selective agent, enrich with Ascitic fluid instead of Horse serum. If desired add 10 vials of Mycoplasma Enrichment Supplement instead of horse serum.
- Mix well and dispense aseptically into sterile tubes.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Yellow coloured 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% Horse serum and Mycoplasma Enrichment Supplement after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Streptococcus pneumoniae</i>	6303	50-100	Good-luxuriant	22-35°C	48 Hours
<i>Mycoplasma pneumoniae</i>	15531	50-100	Good-luxuriant	22-35°C	48 Hours
<i>Mycoplasma gallinarium</i>	19708	50-100	Good-luxuriant	22-35°C	48 Hours
<i>Mycoplasma bovis</i>	25523	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 and Lecce, 1953. J. Bacteriol., 66:646.
2. Adler and Da Massa, 1967, Appl. Microbiol., 15:245.
3. Leland, Lapworth, Jones and French, 1982, J. Clin. Microbiol., 16:709.

 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 Barkstrasse 10, 49163 Maenster, 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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