

## CM 21,271 – PPLO BROTH BASE W/O CV (MYCOPLASMA BROTH BASE W/O CV)

### INTENDED USE

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 Ascaric 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 |
|--------------------------|-------|-------------------|----------------|------------------------|-------------------|
| Streptococcus pneumoniae | 6303  | 50-100            | Good-luxuriant | 22-35°C                | 48 Hours          |
| Mycoplasma pneumoniae    | 15531 | 50-100            | Good-luxuriant | 22-35°C                | 48 Hours          |
| Mycoplasma gallinarium   | 19708 | 50-100            | Good-luxuriant | 22-35°C                | 48 Hours          |
| Mycoplasma bovis         | 25523 | 50-100            | Good-luxuriant | 22-35°C                | 48 Hours          |

#### PACKAGING:

Inpacksizeof500 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

Afteruse,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.

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|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <br>Good Manufacturing Practices Certified | <br>For In Vitro Diagnostic Use                                                                               | <br>Quantity            | <br>Lot / Batch Number | <br>Catalogue Number              | <br>Manufacturer |
| <br>Temperature Unit                       | <br>Authorized Representative<br><small>MedNet GmbH<br/>Buckstrasse 10,<br/>49163 Maastricht, Germany</small> | <br>European Conformity | <br>QR Code            | <br>Consults Instructions for Use | <br>Best Before  |

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

\*ForLabUseOnly

