

CM 21,272 - MYCOPLASMA CULTIVATION BROTH BASE

INTENDED USE

For isolation and cultivation of Mycoplasma (PPLO).

PRODUCT SUMMARY AND EXPLANATION

Mycoplasma Cultivation Broth is used for the isolation & cultivation of Mycoplasma from clinical specimens, such as sputum and mixed cultures. For the cultivation of Mycoplasma, the medium ingredients and all the supplements should be free of any toxic substances even in small amounts. The components contained in this basal medium do not exhibit inhibitory or toxic effects.

Tubes should be incubated in an atmosphere containing 5-10% carbon dioxide and examined after incubation of 48 hours but they should not be discarded as negative until after incubation for 3 weeks.

COMPOSITION

Ingredients	Gms / Ltr
Peptone, special	10.000
Beef extract	5.000
Sodium chloride	10.000
Mineral supplement	0.500

PRINCIPLE

This medium is devised on the basis of Morton et al Media. A special mineral supplement has been added to original formula to improve the growth and colony characteristics of the organism. After enrichment of basal medium with yeast extract, horse serum and antibiotics the medium supports the growth of Mycoplasma.

INSTRUCTION FOR USE

Dissolve 25.5 grams in 700 ml distilled water.

Heat to boiling to dissolve the medium completely.

If desired, distribute in 70 ml aliquots in flasks or tubes.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

Cool to 45°C and aseptically add content of 1 vial (30 ml) of Mycoplasma Cultivation Supplement to 70 ml sterile medium flask or tube.

Mix well and dispense in sterile tube further if required.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder. :
Appearance of prepared medium	: Yellow coloured clear to slightly opalescent solution.
pH (at 25°C)	: 7.8±0.2

INTERPRETATION

Cultural characteristics observed with added 10 vial of Mycoplasma Cultivation Supplement in presence of 10% Carbon dioxide, after an incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Mycoplasma bovis	25523	50-100	Good-luxuriant	35-37°C	48 Hours
Mycoplasma gallinarium	19708	50-100	Good-luxuriant	35-37°C	48 Hours
Mycoplasma pneumoniae	15531	50-100	Good-luxuriant	35-37°C	48 Hours
Streptococcus pneumoniae	6303	50-100	Good-luxuriant	35-37°C	48 Hours

PACKAGING:

Inpacksize 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 Leverman, 1951, Am. J. Syphilis Gonorrh. Venereal Diseases, 35: 361.



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

*For Lab Use Only

