



## Mycoplasma Cultivation Broth Base

M1498

Mycoplasma Cultivation Broth Base with the addition of enrichment supplement is used for isolation and cultivation of *Mycoplasma* (Pleuropneumonia like organisms).

### Composition\*\*

Ingredients	Gms / Litre
Peptone, special	10.000
Beef extract	5.000
Sodium chloride	10.000
Mineral supplement	0.500
Final pH ( at 25°C)	7.8±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 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 lbs pressure (121°C) for 15 minutes. Cool to 45°C and aseptically add content of 1 vial (30 ml) of Mycoplasma Cultivation Supplement (FD198) to 70 ml sterile medium flask or tube. Mix well and dispense in sterile tube further if required.

### Principle And Interpretation

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. This medium is devised on the basis of Morton et al Media (1). 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* .

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.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent solution

#### Reaction

Reaction of 2.55% w/v aqueous solution at 25°C. pH : 7.8±0.2

#### pH

7.60-8.00

#### Cultural Response

M1498: Cultural characteristics observed with added 10 vial of Mycoplasma Cultivation Supplement (FD198) in presence of 10% Carbon dioxide, after an incubation at 35-37°C for 48 hours.

Organism	Growth
<i>Mycoplasma bovis</i> ATCC 25523	good-luxuriant
<i>Mycoplasma gallinarium</i> ATCC 19708	good-luxuriant
<i>Mycoplasma pneumoniae</i> ATCC 15531	good-luxuriant

*Streptococcus pneumoniae* good-luxuriant  
ATCC 6303

## Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

## Reference

1. Morton, Smith and Leverman, 1951, Am. J. Syphilis Gonorrh. Venereal Diseases, 35 : 361.

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