



## Legionella Enrichment Broth Base

M1399

Legionella Enrichment Broth Base with addition of supplements is used for the enrichment of *Legionella* species

### Composition\*\*

Ingredients	Gms / Litre
Yeast extract	5.000
Proteose peptone	15.000
Liver extract	2.500
Sodium chloride	5.000
Final pH ( at 25°C)	6.9±0.2

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

### Directions

Suspend 13.75 grams in 500 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add rehydrated contents of 1 vial of Legionella Growth Supplement (FD016A). Mix well and dispense as desired.

### Principle And Interpretation

*Legionella* is a gram-negative bacterium and is the causative agent of Legionnaires disease. Natural sources of *Legionella* are fresh water ponds and creeks. Transmission to humans takes place via inhalation of aerosols from cooling towers, hot water systems or fountains containing the bacteria.

Legionella Enrichment Broth is recommended for enrichment of *Legionella* (1).

Yeast extract, liver extract and proteose peptone in Legionella Enrichment Broth Base provide necessary nitrogenous nutrients for better recovery of *Legionella*. Sodium chloride helps to maintain osmotic balance. L-Cysteine hydrochloride and ferric pyrophosphate satisfy the specific nutritional requirements. Adding 50 ml of sterile defibrinated horse blood can further enrich this medium.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent solution in tubes

#### Reaction

Reaction of 2.75% w/v aqueous solution at 25°C. pH : 6.9±0.2

#### pH

6.70-7.10

#### Cultural Response

M1399: Cultural characteristics observed with added Legionella Growth Supplement (FD016A), after an incubation at 35-37°C for 48-72 hours.

#### Organism

#### Growth

#### Cultural Response

*Legionella dumoffii* ATCC 33343 good-luxuriant

*Legionella pneumophila* ATCC 33153 good-luxuriant

### Storage and Shelf Life

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

### Reference

Please refer disclaimer Overleaf.

1.Collee J. G., Duguid J. P., Fraser A. G., Marmion B. P., (Eds.), Mackie and McCartney, Practical Medical Microbiology, 1989, 13th Edition, Churchill Livingstone.

Revision : 2 / 2015

**Disclaimer :**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.