



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Legionella Enrichment Broth Base

Product Code: DM 2399

Application: - 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 (25°C)	6.9±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Legionella is a gram-negative bacterium and is the causative agent of disease Legionnaires. 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⁾ from clinical samples for the isolation of the bacteria.

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.

Methodology

Suspend 13.75 grams of powder media in 500 ml distilled water. Shake well and heat Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Do not heat prior to sterilization. Cool to 50°C and aseptically add rehydrated contents of 1 vial of Legionella Growth Supplement (MS2016A).

Quality Control

Physical 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 range 6.70-7.10

Cultural Response/ characteristics

DM 2399: Cultural characteristics observed with added Legionella Growth Supplement (MS2016), after an incubation at 35-37°C for 48-72 hours.





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Organism	Growth
Legionella dumofii ATCC 33343	good-luxuriant
Legionella pneumophila ATCC 33153	good-luxuriant

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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