



# PRODUCT SPECIFICATION SHEET

## Semisolid Liver Meat Medium (DM240)

### Intended Use

Semisolid Liver Meat Medium (DM240) is recommended for cultivation of fastidious anaerobes.

### Product Summary and Explanation

Anaerobic bacteria are the most common organisms colonizing humans, and a frequent cause of serious infections.<sup>(1)</sup> Anaerobic bacteria live in an oxygen-free environment. Some anaerobic bacteria actually die if oxygen is present, while others fail to grow and multiply.<sup>(2)</sup> Semisolid Liver Meat Medium is used for the cultivation of fastidious anaerobes.

### Principles of the Procedure

Semisolid Liver Meat Medium contains liver meat, which provides amino acids and other nutrients and reducing substances for the growth of fastidious anaerobes. Growth of anaerobic microorganisms is favoured by semisolid nature of the medium. Glucose is the source of fermentable carbohydrates.

### Formula / Liter

Ingredients	Gms / Liter
Liver meat base	30.00
Agar	6.00
Final pH: 7.6 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

### Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

### Directions

1. Suspend 38 grams of the medium in one liter of distilled water.
2. Soak for 15 minutes with occasional stirring.
3. Heat to boiling to dissolve the medium completely. Dispense in tubes.
4. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.

### Quality Control Specifications

Dehydrated Appearance	Yellow to brown homogeneous free flowing powder
Prepared Medium	Medium amber coloured clear to slightly opalescent semisolid gel forms in tubes
Reaction of 3.8 % Solution	pH : 7.6 ± 0.2 at 25°C
Gel Strength	Semisolid, comparable with 0.6% Agar gel

**Expected Cultural Response:** Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Sr. No.	Organisms	Results to be achieved
		Growth
1.	<i>Clostridium perfringens</i> ATCC 12924	good-luxuriant
2.	<i>Clostridium sporogenes</i> ATCC 11437	good-luxuriant
3.	<i>Clostridium tetani</i> ATCC 10779	good-luxuriant

The organisms listed are the minimum that should be used for quality control testing.





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### Test Procedure

Refer appropriate references for standard test procedures.

### Results

Refer appropriate references and procedures for interpretation of results.

### Storage

Store the sealed bottle containing the dehydrated medium at 10- 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

### Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

### Limitations of the Procedure

1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

### Packaging

Product Name : Semisolid Liver Meat Medium

Product Code : DM240

Available Pack sizes : 500gm

### References

1. Murray, P. R., E. J. Baron, M. A. Pfaller, F. C. Tenover, and R. H. Tenover (eds.). 1995. Manual of clinical microbiology, 6th ed. American Society for Microbiology, Washington, D.C.
2. Alcamo E. I., 2001, Fundamentals of Microbiology, 6th Ed., Jones and Bartlett Publishers.



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DM240PSS,QAD/FR/024,Rev.00/01.01.2018

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