

# PRODUCT SPECIFICATION SHEET

## Enrichment Medium (DM1718)

### Intended Use

Enrichment Medium (DM1718) is a highly nutritive medium, used as a general purpose enrichment agar base.

### Product Summary and Explanation

Enrichment medium is general purpose enrichment agar which can nourish and support the growth of gram-positive as well as gram-negative bacteria. Enrichment medium is nutritionally rich containing growth factors to support the growth of a wide variety of organisms, including some of the more fastidious organisms. They are commonly used to harvest as many different types of microbes as are present in the specimen.<sup>(1)</sup> It can also be used for haemolysis study or enriched growth by supplementing the medium with blood.

### Principles of the Procedure

Enrichment Medium contains peptic digest of animal tissue and yeast extract which serves as source of nitrogen, carbon, amino acids, vitamins and growth factors for required for bacterial growth and metabolism. Dipotassium phosphate buffers the medium well.

### Formula / Liter

Ingredients	Gms / Liter
Peptic digest of animal tissue	40.00
Yeast extract	6.00
Dipotassium phosphate	3.00
Agar	15.00
Final pH: 7.0 ± 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 64 grams of the medium in one liter of distilled water.
2. Heat to boiling to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.

### Quality Control Specifications

Dehydrated Appearance	Light yellow coloured homogeneous free flowing powder
Prepared Medium	Light amber coloured clear gel forms in Petri plates
Reaction of 6.4% solution	pH 7.0 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel

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

Sr. No.	Organisms	Results to be achieved		
		Inoculum (CFU)	Growth	Recovery
1.	<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant	≥70%
2.	<i>Salmonella Typhi</i> ATCC 6539	50-100	good-luxuriant	≥70%
3.	<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant	≥70%
4.	<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant	≥70%

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

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## Test Procedure

Refer to appropriate references for standard test procedures.

## Results

Refer to appropriate references and standard test procedures for interpretation of results.

## Storage

Store the sealed bottle containing the dehydrated medium at 2 - 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 : Enrichment Medium

Product Code : DM1718

Available Pack sizes : 500gm

## References

1. Madigan M, Martinko J (editors), 2005. Brock Biology of microorganisms (11<sup>th</sup> ed.) Prentice Hall.

## Further Information

For further information please contact your local MICROMASTER Representative.



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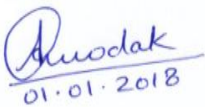

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