



Enrichment Medium

M318

Enrichment Medium is a highly nutritive medium which can be used as a general purpose enrichment agar base.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	40.000
Yeast extract	6.000
Dipotassium phosphate	3.000
Agar	15.000
Final pH (at 25°C)	7.0±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 64 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Enriched media contain the nutrients required to support the growth of a wide variety of organisms, including some of the more fastidious ones. They are commonly used to harvest as many different types of microbes as are present in the specimen(1).

Enrichment medium is general purpose enrichment agar which can nourish and support the growth of gram-positive as well as gram-negative bacteria. It can also be supplemented with blood for enriched growth or study the haemolysis.

This medium contains peptic digest of animal tissue and yeast extract which serves as source of nitrogen, carbon, amino acids, vitamins and growth factors for growth of bacteria. Dipotassium phosphate buffers the medium well. Agar is solidifying agent.

Quality Control

Appearance

Light yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light amber coloured clear gel forms in Petri plates.

Reaction

Reaction of 6.4% w/v aqueous solution at 25°C. pH : 7.0±0.2

pH

6.80-7.20

Cultural Response

M318: Cultural characteristics observed after an incubation at 35 - 37°C after 24 hours

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant	≥70%
<i>Salmonella Typhi</i> ATCC 6539	50-100	luxuriant	≥70%
<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant	≥70%
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	luxuriant	≥70%

Storage and Shelf Life

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

Reference

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

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