



## Yeast extract Agar, Modified

M456I

Yeast extract Agar, Modified is recommended for enumeration of microorganisms from water.

### Composition\*\*

Ingredients	Gms / Litre
Tryptone	6.000
Yeast extract	3.000
Agar	15.000
Final pH ( at 25°C)	7.2±0.2

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

### Directions

Suspend 24 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. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

### Principle And Interpretation

Yeast Extract Agar, Modified is a non selective medium formulated according to the ISO specification ISO 6222:1999 for enumeration of microorganisms from water.

Necessary growth nutrients are provided by tryptone and yeast extract. These serve as source of nitrogen, vitamins, growth factors as well as crude source of carbon. Agar acts as a solidifying agent.

### Quality Control

#### Appearance

Cream to yellow coloured homogeneous free flowing powder

#### Gelling

Firm, comparable with 1.5% Agar gel

#### Colour and Clarity of prepared medium

Yellow coloured clear to very slightly opalescent gel forms in Petri plates.

#### Reaction

Reaction of 2.4% w/v aqueous solution at 25°C. pH : 7.2±0.2

#### pH

7.00-7.40

#### Cultural Response

Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours.

#### Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery
<b>Cultural Response</b>			
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	luxuriant	≥70%
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant	≥70%
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	luxuriant	≥70%
<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant	≥70%

### Storage and Shelf Life

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

### Reference

1. ISO 6222:1999 water quality Enumeration of culturable microorganisms Colony count by incubation in a nutrient agar culture medium.

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