



## YEP Agar, Modified

M1823

YEP Agar, Modified is recommended for plate count of microorganism in water.

### Composition\*\*

Ingredients	Gms / Litre
Peptone	10.000
Yeast extract	10.000
Sodium chloride	5.000
Agar	15.000
Final pH ( at 25°C)	7.0±0.2

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

### Directions

Suspend 40 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 in sterile Petri plate.

### Principle And Interpretation

YEP Agar, Modified is based on the original formula of YEP Agar formulated by Windle Taylor (1) for the plate count of microorganisms in water.

Yeast extract and peptone provide nitrogenous and carbonaceous compounds, long chain amino acids, vitamin B complex and other growth nutrients. Separate counts are made of the organisms forming visible colonies after 24 hours at 35-37°C and the organisms forming colonies after 3 days at 20-22°C (2). Select the plates containing 30 - 300 colonies

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Gelling

Firm, comparable with 1.5% Agar gel.

#### Colour and Clarity of prepared medium

Light amber coloured slight opalescent gel forms in Petri plates.

#### Reaction

Reaction of 2.78% w/v aqueous solution at 25°C. pH : 7.0±0.2

#### pH

6.80-7.20

#### Cultural Response

Cultural characteristics observed after an incubation at 25-30°C for upto 5 days.

#### Cultural Response

Organism	Growth
<i>Rhizobium leguminosarum</i> ATCC 10004	luxuriant
<i>Rhizobium meliloti</i> ATCC 9930	luxuriant
<i>Agrobacterium tumefaciens</i> ATCC 33970	luxuriant

### Storage and Shelf Life

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

### Reference

1. Taylor W. E., 1958, The Examination of Waters and Water Supplies, 7th ed., Churchill Ltd, London, pg. 394, 778.
2. Dept. of Health and Social Security, 1982, report No.71 : HMSO, London, 54.

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