

TM 2430 - YEP AGAR, MODIFIED

INTENDED USE

Recommended for plate count of microorganism in water.

PRODUCT SUMMARY AND EXPLANATION

YEP Agar, modified is based on the original formula of YEP Agar formulated by Windle Taylor for the plate count of microorganisms in water. 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. Select the plates containing 30 - 300 colonies.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	10.000
Yeast extract	10.000
Sodium chloride	5.000
Agar	15.000

PRINCIPLE

Yeast extract and peptone provide nitrogenous and carbonaceous compounds, long chain amino acids, vitamin B complex and other growth nutrients.

INSTRUCTION FOR USE

- Dissolve 40 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C. Mix well and pour in sterile Petri plate.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Light amber coloured slight opalescent gel forms in Petri plates.
pH (at 25°C)	: 7.0±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Rhizobium leguminosarum</i>	10004	50-100	Luxuriant	>=70%	25-30°C	Upto 5 days



<i>Rhizobium meliloti</i>	9930	50-100	Luxuriant	>=70%	25-30°C	Upto 5 days
<i>Agrobacterium tumefaciens</i>	33970	50-100	Luxuriant	>=70%	25-30°C	Upto 5 days

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Dept. of Health and Social Security, 1982, report No.71: HMSO, London, 54.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
4. Subba Rao N. S., 1977, Soil Microorganisms and Plant Growth, Oxford and IBH Publishing Co., New Delhi.
5. Taylor W. E., 1958, The Examination of Waters and Water Supplies, 7th ed., Churchill Ltd, London, pg. 394, 778.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative	 CE European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
Revision: 08 Nov., 2019