

# Yeast Extract Agar



Medium used for the enumeration of microorganisms in water.

## • CONTENTS (Liter)

Peptone	6.0 g
Yeast Extract	3.0 g
Agar	15.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 24.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in petri dishes.

## • INTERPRETATION

Yeast Extract Agar is a medium used for the enumeration of microorganisms in water. Peptone and yeast extract provide nitrogen, carbon, amino acids and minerals. Agar is the solidifying agent.

## • TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 18 - 24 hours or 20 ± 2°C for 3 days. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

### Prepared medium

Appearance: clear with no precipitate.

Color: light amber.

Incubation conditions: 35 ± 2°C / 42 - 48 hours or 20 ± 2°C / 3 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Staphylococcus aureus</i>	25923	50-100	good
<i>Escherichia coli</i>	25922	50-100	good
<i>Candida albicans</i>	10231	50-100	good
<i>Aspergillus niger</i>	16404	50-100	good

## • STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

## • REFERENCES

1. International Organization for Standardization: 1999. Water Quality – Enumeration of culturable microorganisms – Colony count by inoculation in a nutrient agar culture medium. International Standard ISO: 6222.
2. Windle Taylor (1958). The Examination of Waters and Waters Supplies. 7<sup>th</sup> ed. pp 394-398 and 778.

## • PACKAGE

Cat. No : MB-Y1416 Yeast Extract Agar	500 G
--	-------