

# Microbial Content Test Agar



Medium used for the identification and determination of microorganisms present on surfaces of sanitary importance.

## • CONTENTS (Liter)

Tryptone	15.0 g
Soy Peptone	5.0 g
Sodium Chloride	5.0 g
Tween 80	5.0 g
Lecithin	0.7 g
Agar	15.0 g
Final pH = 7.3 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 45.7 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 at 45 - 50°C in water bath. Pour into petri dishes.

## • INTERPRETATION

Microbial Content Test Agar is a medium used for the identification and determination of microorganisms present on surfaces of sanitary importance. Tryptone and soy peptone provide nitrogen, carbon, vitamins and minerals for growth of microorganisms. Sodium chloride maintains the osmotic balance. Lecithin and tween 80 are used to neutralize quaternary ammonium compounds and disinfectants. Agar is the solidifying agent.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: moist appearance, with a tendency to clump

Color: beige

### Prepared medium

Appearance: opalescent

Color: amber

Incubation conditions: 36 ± 1°C / 24 - 48 hours

Microorganism	ATCC	Inoculate CFU	Growth	Characteristics
<i>Escherichia coli</i>	25922	50-100	good	colorless colonies
<i>Staphylococcus aureus</i>	6538	50-100	good	colorless colonies

**• STORE**

The powder is very hygroscopic. Store the powder at 2 - 8°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. Am. Pub. Hlth. Assoc., (1978)., Standard Methods for Examination of Dairy Products, 14th ed.
2. Tenebaum, (1970), TGA Cosmetic Journal, 2:24-29.
3. AOAC, 10th ed., (1965).

**• PACKAGE**

Cat. No : MB-M1094 Microbial Content Test Agar	500 G
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