

# Motility Test Agar



Selective medium used for the motility detection of gram-negative enteric bacilli.

\*Equally use with NIER (MB-M1132N).

## • CONTENTS (Liter)

Beef Extract	3.0 g
Gelatin Peptone	10.0 g
Sodium Chloride	5.0 g
Agar	4.0 g
Final pH = 7.1 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 22.0 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 tubes. If necessary dispense the medium before autoclave.

## • INTERPRETATION

Motility Test Agar is semi-solid medium used for the motility detection of gram-negative enteric bacilli. This medium recommended for detection of bacterial motility. Beef extract and gelatin peptone provided nitrogen, carbon, and vitamin. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent used at a low concentration.

## • TECHNIC

Inoculate the specimen with stab using a sterile needle to center of the medium. Incubate at 25 °C or 37 °C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

### Prepared medium

Appearance: slightly opalescent.

Color: medium amber.

Incubation conditions: 25 °C or 37 °C / 24 - 48 hours.

Microorganism	ATCC	Inoculum CFU	Growth	Motility at 25 °C
<i>Enterobacter aerogenes</i>	13048	50-100	good	+
<i>Escherichia coli</i>	25922	50-100	good	+
<i>Klebsiella pneumoniae</i>	13883	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. Jordan, Caldwell and Reiter.1934. J.Bacteriology 27:165.
2. Holt, Krieg, Sneath, Staley and Williams (ed.).1994., Bergey's Manual of determinative bacteriology, 9th ed. Williams & Wilkins, Baltimore, Md.
3. Farmer, 1999.In Murray, Baron, Pfaller, Tenorev and Yolken (ed.), Manual of Clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.
4. Macfaddin.1985.Media for isolation-cultivation-identification-maintenance of medical bacteria, vol.1.Williams & Wilkins, Baltimore, Md.
5. Refer to the NIER.

## • PACKAGE

Cat. No : MB-M1132 Motility Test Agar	500 G
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