

# Motility GI Medium



Medium used for the identification and determination of microorganisms on the basis of motility.

## • CONTENTS (Liter)

Beef Heart Infusion	10.0 g
Tryptose	10.0 g
Sodium Chloride	5.0 g
Gelatin	53.4 g
Agar	3.0 g
Final pH = 7.2 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 81.4 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. Pour into tubes.

## • INTERPRETATION

Motility GI Medium is a medium used for the identification and determination of microorganisms on the basis of motility. Beef heart infusion and tryptose are the nitrogen and vitamin sources. Sodium chloride maintains the osmotic balance. Gelatin and agar are used for the detection of motility.

## • TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 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: light amber

Incubation conditions: 35 ± 2°C / 18 - 48 hours

Microorganism	ATCC	Growth	Characteristics
<i>Salmonella typhimurium</i>	14028	good	Motility +
<i>Salmonella enteritidis</i>	NCCP 12236	good	Motility +
<i>Enterobacter aerogenes</i>	13048	good	Motility +
<i>Klebsiella pneumoniae</i>	13883	good	Motility -

**• 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. Store prepared medium at 2 - 8°C.

**• REFERENCES**

1. Jordan, Caldwell and Reiter, 1934. J. Bacteriol. 27:165-174.
2. MacFaddin. 1985. Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Vol. 1. Williams & Wilkins, Baltimore, Md.

**• PACKAGE**

Cat. No : MB-M3067 Motility GI Medium	500 G
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