

## M1053 Motility Test Medium

Motility Test Medium is recommended for the detection of bacterial motility.

### Composition:

Ingredients	Grams/Litre
Tryptose	10.0
Sodium Chloride	5.0
Agar	5.0
Final pH 7.2 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Yellow colored, homogenous, free flowing powder.

Gelling: Semisolid

Color and Clarity: Light yellow colored, clear to slightly opalescent gel forms in tubes as butts.

### Directions:

Suspend 20 g of Motility Test Medium in 1000 ml of distilled water. Heat to boiling to dissolve the medium completely. Dispense in test tubes and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. Allow tubed medium to cool in an upright position.

### Principle and Interpretation:

Peptic digest of animal tissue and beef extract in the form of tryptose provide nitrogenous compounds, carbon, sulfur and trace ingredients. Inoculation is done by stabbing through the center of the medium. Non-motile organisms grow only along the line of inoculation, whereas, motile organisms grow away from the line of inoculation.

Cultural characteristics after 18-48 hours at 35°C.

Organisms (ATCC)	Growth	Motility
<i>Enterobacter aerogenes</i> (13048)	+++	+
<i>Escherichia coli</i> (25922)	+++	+
<i>Klebsiella pneumoniae</i> (13883)	+++	-
<i>Salmonella enteritidis</i> (13076)	+++	+
<i>Staphylococcus aureus</i> (25923)	+++	-

### References:

1. American Type Culture Collection, Manassas, Va. U.S.A

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

