

**Motility Test HiVeg™ Medium****MV260**

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

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg hydrolysate No. 1	10.0
Sodium chloride	5.0
Agar	5.0

Final pH (at 25°C) 7.2 ± 0.2

\*\* Formula adjusted, standardized to suit performance parameters.

**Directions :**

Suspend 20 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense in 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 :**

This medium is prepared by completely replacing animal based peptones with vegetable peptones which makes the medium free of BSE/TSE risks. Motility Test HiVeg Medium is the modification of the medium reported by Tittsler and Sandholzer for detecting the motility of bacteria (1). HiVeg hydrolysate No.1 provides nitrogenous compounds, carbon and trace ingredients. Inoculation is done by stabbing through the center of the medium. Incubate at appropriate temperature for 18 to 40 hours. Non-motile organisms grow only along the line of inoculation whereas motile organisms grow away from the line of inoculation or may show growth even throughout the medium. Comparison should be made with an un-inoculated control.

**Quality Control :****Appearance of powder**

Yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

**Product Profile :**

Vegetable based (Code MV) ©	Animal based (Code M)
<b>MV260</b> HiVeg hydrolysate No. 1	<b>M260</b> Tryptose
<b>Recommended for</b>	: Detection of bacterial motility.
<b>Reconstitution</b>	: 20.0 g/l
<b>Quantity on preparation (500g)</b>	: 25.0 L
<b>pH (25°C)</b>	: 7.2 ± 0.2
<b>Supplement</b>	: None
<b>Sterilization</b>	: 121°C / 15 minutes.
<b>Storage</b>	: Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

**Gelling**

Semisolid, comparable with 0.5% Agar gel.

**Colour and Clarity**

Light yellow coloured, clear to slightly opalescent gel forms in tubes as butts.

**Reaction**

Reaction of 2.0% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37°C for 18 - 48 hours.

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

Key : + = growth away from stabline (motile)

- = growth along the stabline (non-motile)

**References :**

1. Tittsler and Sandholzer, 1936, J. Bact., 31:575.