

**Listeria Motility HiVeg™ Medium****MV1215**

Listeria Motility HiVeg Medium is a semisolid medium recommended for testing motility of *Listeria monocytogenes*.

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg hydrolysate	20.0
HiVeg peptone	6.1
Agar	3.5

Final pH (at 25°C) 7.3 ± 0.2

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

**Directions :**

Suspend 29.6 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 the 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 are free from BSE/TSE risks. Listeria Motility HiVeg Medium is the modification of Listeria Motility Medium for the determination of motility of *Listeria monocytogenes*.

HiVeg hydrolysate and HiVeg peptone acts as source of growth nutrients. The motility of *Listeria monocytogenes* is best demonstrated by stab inoculating two tubes of semisolid medium and incubating one at room temperature (20 - 25°C) and the other at 35°C. Motility is better observed at room temperature (1).

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

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

**Gelling**

Semisolid, comparable with 0.35% Agar gel.

**Product Profile :**

Vegetable based (Code MV)©	Animal based (Code M)
<b>MV1215</b> HiVeg peptone HiVeg hydrolysate	<b>M1215</b> Peptic digest of animal tissue Casein enzymic hydrolysate

**Recommended for** : Testing motility of *Listeria monocytogenes*.

**Reconstitution** : 29.6 g/l

**Quantity on preparation (500g)** : 16.89 L

**pH (25°C)** : 7.3 ± 0.2

**Supplement** : None

**Sterilization** : 121°C / 15 minutes.

**Storage** : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

**Colour and Clarity**

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

**Reaction**

Reaction of 2.96% w/v aqueous solution is pH 7.3 ± 0.2 at 25°C.

**Cultural Response**

Cultural characteristics observed after an incubation at room temperature (25 - 30°C) for 24 - 48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Motility
<i>Listeria monocytogenes</i> (19111)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	+
<i>Listeria monocytogenes</i> (19112)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	+
<i>Listeria monocytogenes</i> (19117)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant	+

Key : + = growth away from stab line (motile).

**References :**

1. Bailey and Scott's Diagnostic Microbiology, 1986, 7<sup>th</sup> ed., The C.V. Mosby Co., St. Louis.