

55265 Listeria Motility Medium

Listeria Motility Medium is a semisolid medium recommended by ISO Committee for testing motility of *Listeria monocytogenes*.

Composition:

Ingredients	Grams/Litre
Casein enzymic hydrolysate	20.0
Peptic digest of animal tissue	6.1
Agar	3.5
Final pH 7.3 +/- 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: Light yellow coloured, homogeneous, free flowing powder.

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

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 medium to cool in an upright position

Principle and Interpretation:

Listeria Motility Medium is recommended from the ISO Committee for the determination of motility by *Listeria monocytogenes* in dairy products. The motility of *Listeria monocytogenes* can be seen by stab inoculation of two tubes, per sample, 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. By a motility positive strain, a growth away from the stabline can be observed

Casein enzymic hydrolysate and peptic digest of animal tissue provide essential nitrogenous growth nutrients. Agar is the solidifying agent and in this concentration it gives a semisolid media.

Cultural characteristics after 24-48 hours at 25-30°C

Organisms (ATCC)	Growth	Motility
<i>Listeria monocytogenes</i> (19111)	+++	+
<i>Listeria monocytogenes</i> (19112)	+++	+

References:

1. International Organisation for Standardization (ISO), Milk and milk products - Detection of *Listeria monocytogenes*, Draft, ISO/DIS 10560 (1993)
2. S.M. Finegold, E.J. Baron, Bailey and Scott's Diagnostic Microbiology, 7th ed., The C.V. Mosby Co., St. Louis (1986)

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.

