Trypotone Soya Yeast Extract HiVeg™ Agar / Broth

**Composition:**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
<th>Grams/Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>HiVeg hydrolysate</td>
<td>17.00</td>
<td>17.00</td>
</tr>
<tr>
<td>Papaic digest of soyabean meal</td>
<td>3.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Dipotassium hydrogen phosphate</td>
<td>2.50</td>
<td>2.50</td>
</tr>
<tr>
<td>Dextrose</td>
<td>2.50</td>
<td>2.50</td>
</tr>
<tr>
<td>Yeast extract</td>
<td>6.00</td>
<td>6.00</td>
</tr>
<tr>
<td>Agar</td>
<td>15.00</td>
<td>—</td>
</tr>
</tbody>
</table>

Final pH (at 25°C) 7.3 ± 0.2

**Directions:**

Suspend 51 grams of MV1214 or 36 grams of MV1263 in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

**Principle and Interpretation:**

Trypotone Soya Yeast Extract HiVeg Agar / Broth is the modification of Trypotone Soya Yeast Extract Agar / Broth which is formulated as per APHA (1) for the isolation and cultivation of *Listeria monocytogenes* from foods. HiVeg hydrolysate and Papaic digest of soyabean meal provide amino acids and other complex nitrogenous substances. Dextrose is the energy source. Dipotassium hydrogen phosphate acts as buffering system to control pH. Yeast extract is the rich source of vitamin B complex.

According to FDA’s enrichment procedure (2) for isolation of *Listeria monocytogenes* from dairy products, the sample to be tested is inoculated in enrichment broth and incubated at 30°C for 24-48 hours. This culture is streaked on Modified McBride Listeria HiVeg Agar (MV891) with Cycloheximide or Lithium-Phenylethanol-Mozalactam (LPM) HiVeg Agar (MV1228) and incubated at 35°C for 48 hours. Presumptive *Listeria* colonies are selected under 45° transillumination and colonies are further purified on Trypotone Soya Yeast Extract HiVeg Agar under the light illumination. *Listeria* colonies are dense white to iridescent white appearing as crushed glass. Other colonies tend to be yellowish or orange.

**Product Profile:**

- **Vegetable based (Code MV):** HiVeg hydrolysate
- **Animal based (Code M):** Casein enzymic hydrolysate

**Recommended for:** Confirmation of *Listeria* in Henry’s light.

**Reconstitution:**

- MV1214/MV1263: 51.0 g/l
- MV1263: 36.0 g/l

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

- MV1214: 9.80 L
- MV1263: 13.88 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.

**Quality Control:**

- **Appearance of Powder:** Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.
- **Gelling:** Firm, comparable with 1.5% Agar gel of MV1214.
- **Colour and Clarity:** Yellow coloured, clear gel forms in petri plates, clear solution in tubes.
- **Reaction:** Reaction of 5.1% w/v of MV1214 or 3.6% w/v of MV1263 aqueous solution is pH 7.3 ± 0.2 at 25°C.
- **Cultural Response:** Cultural characteristics observed after an incubation at 30°C for 24-48 hours.

**Organisms (ATCC) Inoculum (CFU) Growth**

<table>
<thead>
<tr>
<th>Organisms (ATCC)</th>
<th>Inoculum (CFU)</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Listeria monocytogenes</em> (19111)</td>
<td>10^5</td>
<td>good-luxuriant</td>
</tr>
<tr>
<td><em>Listeria monocytogenes</em> (19118)</td>
<td>10^5</td>
<td>good-luxuriant</td>
</tr>
</tbody>
</table>

**References**


Prepared from GMO free Vegetable proteins replacing Animal based peptones. Freedom from BSE/TSE worries.