R & F® *Listeria monocytogenes* Chromogenic Detection System

A Highly Selective Differential System For Identifying *Listeria monocytogenes*

**Listeria innocua**

**Listeria monocytogenes**

Incubated at 35°C for 48 hours

Acid production from rhamnose

Fluorescence

R & F® *Listeria monocytogenes* Chromogenic Plating Medium
(Licensed From Biosynth)

R & F® *Listeria monocytogenes* Confirmatory Medium

Product contains BIOSYNTH AG patented substrate (PCT/EP98/01091)

COLLABORATIVELY VALIDATED BY FDA

LISTED IN FDA’s BAM

Product No. M-0500

U.S. Patent 6,416,970
6,051,391
6,068,988

European Patent 0949266
R & F® *Listeria monocytogenes* Chromogenic Plating Medium incubated at 35°C for 48 hours

<table>
<thead>
<tr>
<th>Bacterial Species</th>
<th>Number of Strains</th>
<th>Colonial Morphology</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Listeria monocytogenes</em></td>
<td>110</td>
<td>Turquoise convex colonies; 1-2.5 mm + Turquoise halos</td>
</tr>
<tr>
<td><em>Listeria ivanovii</em></td>
<td>4</td>
<td>Turquoise convex colonies; 1-1.5 mm Dark Turquoise halos</td>
</tr>
<tr>
<td><em>Listeria innocua</em></td>
<td>43</td>
<td>White convex colonies; 1-2 mm; No precipitates or halos</td>
</tr>
<tr>
<td><em>Listeria seeligeri</em></td>
<td>4</td>
<td>White convex colonies; 1-2 mm; No precipitates or halos</td>
</tr>
<tr>
<td><em>Listeria welshimeri</em></td>
<td>3</td>
<td>White convex colonies; 2 mm; No precipitates or halos</td>
</tr>
<tr>
<td><em>Listeria grayi</em></td>
<td>1</td>
<td>White convex colonies; 1 mm; No precipitates or halos</td>
</tr>
<tr>
<td><em>Enterococcus sp.</em></td>
<td>6</td>
<td>Scant growth; pinpoint; clear</td>
</tr>
<tr>
<td><em>Bacillus cereus/ thuringiensis</em></td>
<td>12</td>
<td>No growth</td>
</tr>
<tr>
<td><em>Gram positive sp.</em></td>
<td>7</td>
<td>No growth</td>
</tr>
<tr>
<td><em>Gram negative sp.</em></td>
<td>17</td>
<td>No growth</td>
</tr>
</tbody>
</table>

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* Includes: *Bacillus circularis*, *Staphylococcus aureus*, and *epidermidis*

** Includes: *E. coli* (4 strains) and *E. coli O157:H7*

(1 strain) plus 10 other common Gram neg. genera

Advantages of R & F® *Listeria monocytogenes* Chromogenic Detection System

- Listed in FDA’s BAM and collaboratively validated by FDA
- Chromogenic reactions identifying a specific virulence factor, i.e. phosphatidylinositol-specific phospholipase C
- The highly differential system identifies only the pathogenic *Listeria* species, *Listeria monocytogenes* and *Listeria ivanovii*
- Unlike selective/differential agars that depend on esculinase activity (Oxford, Palcam) wherein the entire plate turns black by any *Listeria* species, the water insoluble chromogen formed in this system colors only *Listeria monocytogenes* and *Listeria ivanovii* colonies
- Rapid and convenient fluorogenic test differentiates *Listeria monocytogenes* from *Listeria ivanovii* after 6 hours

ORDERING INFORMATION:

M-0500 R & F® **Listeria monocytogenes** Chromogenic Plating Medium

M-0510 R & F® **Listeria monocytogenes** Supplement for Plating Medium

M-0550 R & F® **Listeria monocytogenes** Chromogenic Detection System

M-520 R & F® **Listeria monocytogenes** Confirmatory Medium

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References


