Trusted Legionella detection. Reliable results.

For fast public health response, confidently and reliably identify the presence of Legionella species in water samples with Thermo Scientific™ Legionella testing solutions.

Legionella pneumophila is a major cause of both pneumonia and an acute self-limiting febrile disease called Pontiac Fever. L. pneumophila serogroup 1 is responsible for the majority of adult Legionella infections with serogroup 6 present in a smaller number of cases. Other serogroups of L. pneumophila and another 19 species of Legionella are associated to a varying degree with human disease.

Legionella is unlikely to be transmitted person-to-person but is commonly transmitted through aerosols generated from cooling towers of air-conditioning systems or by use of potable water from domestic hot-water installations, for example, showers.

This guide describes the Thermo Scientific™ Microbiology products that are commonly used for the detection and enumeration of Legionella in water.

ISO:11731:1
Water Quality—Detection and enumeration of Legionella

- Liquid sample
- >10^3 organisms per liter unconcentrated
- <10^2 organisms per liter Concentrate by filtration or centrifugation
- Divide Sample
- Untreated
- Acid treated 1–10mL
- Heat treated 1.0 +/- 0.5mL
- Isolation 0.1-0.5mL of each sample onto
  - GVPC agar, 10 days at 36°C +/- 1°C
  - 2.5% carbon dioxide (optional)
- Confirmation
  - BCYE without Cysteine or Nutrient Agar
    - No growth
  - BCYE
    - Pure growth

ISO:11731-2:2004
Water Quality—Detection and enumeration of Legionella
Part 2: Direct membrane filtration methods for water with low bacterial counts

- Water sample (10-1000mL)
- Filter 0.45µm
- Black nitrocellulose filters
- Acid treatment in filter funnel
- GVPC agar or BCYE agar
- 10 days at 36°C +/- 2°C
- 2.5% carbon dioxide (optional)
- Confirmation
  - BCYE without Cysteine or Nutrient Agar
    - No growth
  - BCYE
    - Growth

Confirmation and identification may be carried out in accordance with ISO:11731:1.
Legionella Testing Solutions

Culture Media

Rely on high quality media manufactured in our ISO compliant production facilities and supported by a team of experts dedicated to microbiology.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Dehydrated Culture Media</th>
<th>Prepared Culture Media</th>
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</thead>
<tbody>
<tr>
<td>Legionella GVPC Medium</td>
<td>CM0655</td>
<td>SR0110</td>
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<tr>
<td>Legionella BCYE Medium</td>
<td>CM0655</td>
<td>SR0110</td>
</tr>
<tr>
<td>Legionella BCYE w/o L-Cysteine Medium</td>
<td>CM0655</td>
<td>SR0175</td>
</tr>
<tr>
<td>Legionella MWY Selective Medium</td>
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</tr>
<tr>
<td>Legionella BMPA Medium</td>
<td>CM0655</td>
<td>SR0110</td>
</tr>
</tbody>
</table>

For Legionella culture media products in others countries please contact your local distributor.

Quality Control Organisms

Stringent quality control ensures accurate and consistent test results in your microbiology laboratory. Our dedication to quality has driven us to develop a wide selection of reliable, easy-to-use products. Thermo Scientific™ Culti-Loops™ are ready to use, disposable inoculation loops which contain stabilized, preserved, viable microorganisms, for simple and convenient performance testing.

Diagnostic Reagents

Our selection of rapid, easy-to-use identification systems is designed for manual testing or as confirmation for automated test systems.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Format</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>DrySpot Legionella pneumophila Serogroup 1 Kit</td>
<td>60 tests</td>
<td>DR0200M</td>
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<tr>
<td>DrySpot Legionella pneumophila Serogroup 2-14 Kit</td>
<td>60 tests</td>
<td>DR0210M</td>
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<tr>
<td>DrySpot Legionella species Kit</td>
<td>60 tests</td>
<td>DR0220M</td>
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<tr>
<td>Legionella Latex Test Kit</td>
<td>50 tests</td>
<td>DR0800M</td>
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<tr>
<td>Legionella pneumophila Serogroup 1 Latex Test Kit</td>
<td>50 tests</td>
<td>DR0801M</td>
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<tr>
<td>Legionella pneumophila Serogroup 2-14 Latex Test Kit</td>
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<td>DR0802M</td>
</tr>
<tr>
<td>Legionella species Latex Test Kit</td>
<td>50 tests</td>
<td>DR0803M</td>
</tr>
</tbody>
</table>

References

1 World Health Organization Guidelines for drinking water quality – Legionella. www.who.int/water_sanitation_health/dwq/microbioladd

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