The Legiolert® Test outperforms BCYE solid culture methods in study after study

Peer-reviewed studies find the Legiolert liquid culture test is:
• More sensitive than BCYE solid culture methods.
• Highly specific for *Legionella pneumophila*. 
11 peer-reviewed studies tested 2,071 environmental samples to compare the Legiolert® Test to BCYE solid culture methods

11 Peer-reviewed studies

Multiple methods compared

• ISO 11731
• CDC Protocol
• SM9260-J
• Customized BCYE methods

19 Participating laboratories
Across 7 countries and 3 continents

Legiolert liquid culture was shown to be more sensitive than BCYE solid culture

9 of 11 studies showed the Legiolert Test to be statistically more sensitive

100% of peer-reviewed papers showed Legiolert to be at least as sensitive (either more sensitive or equal to) as BCYE solid culture methods
All studies showed the Legiolert Test to be highly specific

<table>
<thead>
<tr>
<th>Study*</th>
<th>Calculated specificity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sartory et al, 2017</td>
<td>96%</td>
</tr>
<tr>
<td>Spies et al, 2018</td>
<td>98%</td>
</tr>
<tr>
<td>Rech et al, 2018</td>
<td>97%</td>
</tr>
<tr>
<td>Petrisek and Hall, 2018</td>
<td>100%</td>
</tr>
<tr>
<td>Barrette, 2019</td>
<td>96%</td>
</tr>
<tr>
<td>Checa et al, 2021</td>
<td>100%</td>
</tr>
<tr>
<td>Boczek et al, 2021</td>
<td>97%</td>
</tr>
</tbody>
</table>

*4 of 11 studies did not calculate specificity. All peer-reviewed specificity calculations are included above.

“...there was no evidence of interference by nontarget microorganisms when using the Legiolert method.”
—Researchers at the US EPA

The Legiolert Test is trusted by public and private labs around the world

ASTM International D8429-21
Accepted as an international standard for quantifying L. pneumophila

The Legiolert Test is AFNOR “NF Validation” Certified for Legionella pneumophila testing in hot and cold sanitary water and cooling tower water

Included in the UK Standing Committee of Analysts blue book for Legionella

“Legiolert is characterized by very easy and rapid sample preparation, with the additional advantages of avoiding the need for large sampling volumes, membrane filtration, treatments, plating, colony isolation, and additional confirmation or identification.”
—Researchers at the National Institute of Health, Italy

“First, Legiolert employs a simple sample preparation and test procedure that can improve laboratory workflow and efficiency. Second, positive wells were easy to identify and could be counted rapidly, accurately, and with little to no interpretation.”
—Researchers at EMSL, a major US private laboratory
The 11 studies


