

Swab Legionella Field Test™ Kit

This kit is designed to test for Legionella on surfaces and biofilms in risk areas identified by CDC* such as:

- Domestic and industrial hot and cold water systems.
- Cooling towers.
- Decorative fountains, hot tubs and pools.
- Sinks and showers.
- Misters, sprinklers, air washers, humidifiers and others.



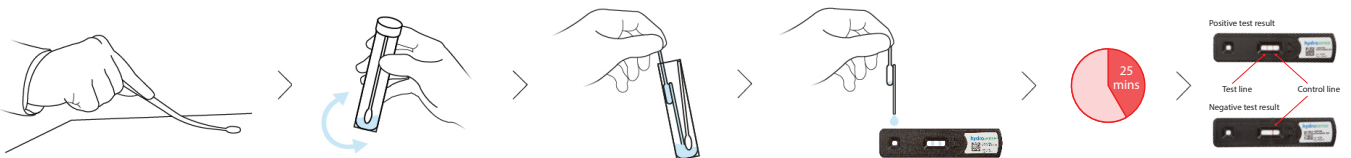
*The Centers for Disease Control and Prevention (CDC) is a federal agency that conducts and supports health promotion, prevention and preparedness activities in the United States, with the aim of improving overall public health.

Swab Legionella Field Test™ Kit product code 100144

The test contains all the items required to perform 5 tests.

- The test detects Legionella pneumophila serogroup 1 (LpSG1).
- The sensitivity of this test is 200 CFU per swabbed area.
- The test detects Viable-But-Non-Culturable Bacteria and Legionella SG1 in all stages of its life-cycle.
- No need to measure or dilute solutions.
- The test is simple to use, no interpretation is required.
- Provides straightforward results, on-site, within 25–35 minutes.
- The test helps to minimise delays and downtime.
- Regular use increases confidence in Legionella controls.
- The smartphone App reader provides independent record of results (Download Hydrosense App for free from the App store or Play Store).

The Hydrosense Legionella Field Test™ uses Lateral Flow Immunochromatographic Assay (LFICA) technology to detect the presence of cell surface antigens from *Legionella* bacteria. It uses Legionella antibodies, tagged with red nanoparticles, which bind to any bacteria found in the sample and make them visible on a line on the device. The test works just like a pregnancy test - one line indicates a negative result and two lines indicate a positive result.



Legionella Field Test™ Swab Kit

Bacteria detected	Legionella pneumophila serogroup 1										
Detection method	Lateral flow immunochromatographic assay										
Limit of detection	200 CFU per swabbed area										
Specificity	<p>Tested against a wide range of waterborne bacteria, including <i>Acinetobacter calcoaceticus</i>, <i>Aeromonas hydrophila</i> subsp. <i>hydrophila</i>, <i>Bacillus subtilis</i>, <i>Burkholderia cepacia</i>, <i>Citrobacter freundii</i>, <i>Citrobacter koseri</i>, <i>Escherichia coli</i>, <i>Enterobacter cloacae</i>, <i>Klebsiella oxytoca</i>, <i>Pseudomonas aeruginosa</i>, <i>Pseudomonas fluorescens</i>, <i>Pseudomonas putida</i>, <i>Pseudomonas stutzeri</i>, <i>Ralstonia pickettii</i>, <i>Raoultella terrigena</i>, <i>Streptococcus pyogenes</i>, <i>Yersinia ruckeri</i>.</p> <table border="1"><thead><tr><th>Organism</th><th>≥cfu/mL</th></tr></thead><tbody><tr><td>L.p Sg-2,3,8,11,13,14</td><td>1.00E+08</td></tr><tr><td>L.p. Sg-4,5,6,7,9,10,15</td><td>1.00E+07</td></tr><tr><td>L.p. Sg-12</td><td>8.00E+06</td></tr><tr><td>S.aureus</td><td>2.00E+08</td></tr></tbody></table> <p>The Hydrosense legionella pneumophila Sg-1 test has been shown to produce weak positive results with other legionella pneumophila serogroups at the cfu/mL stated in the above table.</p>	Organism	≥cfu/mL	L.p Sg-2,3,8,11,13,14	1.00E+08	L.p. Sg-4,5,6,7,9,10,15	1.00E+07	L.p. Sg-12	8.00E+06	S.aureus	2.00E+08
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Test volume	100 µL										
Suggested sample area	10cm ²										
Sample parameters	Resuspension of the bacteria should be done in 2 mL of recovery solution. Shake the tube for at least 20 seconds.										
Biocides	<p>The product has been tested with a range of common biocides and biodispersants used in Legionella control, at their normal maximum operating concentration. Active ingredients tested include: glutaraldehyde, didecyl-dimethyl-ammonium chloride, isothiazoles, dibromonitripropionamide, ionic and non-ionic surfactants.</p> <p>The test gives a false positive if used with polymeric biguanide or THPS. It should not be used to test such systems.</p>										
Operator time	5 minutes										
Test time	25 minutes										
Shelf life	18 months from date of manufacture, when stored at room temperature (<30°C) in original packaging. All test strips are hermetically foil-wrapped and with a printed expiry date.										

zeller GmbH

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