

# Industrial Legionella Field Test™ EU Kit

This kit is designed to test for Legionella in risk areas identified by ECDC\* such as:

- Pipe fittings in domestic and industrial hot and cold water systems.
- Cooling towers.
- Showers.
- Water tanks.



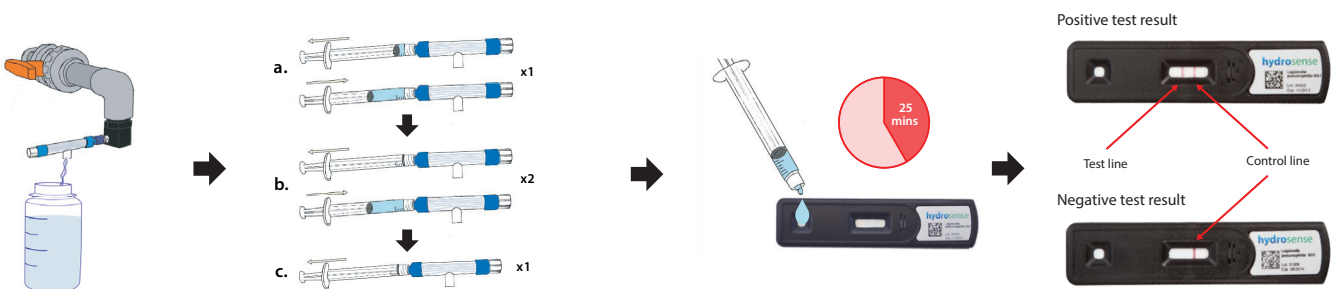
\*The European Centre for Disease Prevention and Control is an independent agency of the European Union whose mission is to strengthen Europe's defences against infectious diseases.

Industrial Legionella Field Test™ EU Kit product code 100264

The test kit contains all the items required to perform 5 tests and includes a fitting for connection to water systems.

- The test detects Legionella pneumophila serogroup 1 (LpSG1).
- The sensitivity of the water test is 1000 CFU/L.
- The test detects Viable-But-Non-Culturable Bacteria and Legionella SG1 in all stages of its life-cycle.
- Hassle free sample collection. Simply connect sample point to the water system and use system pressure to drive the filtration process.
- The kit includes pre-filled syringes containing recovery buffer. No need to measure or dilute solutions.
- The test is simple to use and helps to minimise delays and downtime.
- The test provides straightforward results, on-site, within 25–35 minutes.
- Score card to determine action level is included: score of 1 or greater is  $\geq 1000$  CFU/L and score of 6 or greater =  $\geq 10,000$  CFU/L.
- 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.



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Bacteria detected	Legionella pneumophila serogroup 1											
Detection method	Lateral flow immunochromatographic assay											
Lower limit of detection	1000 CFU/L											
Specificity	<p>Tested against a wide range of waterborne bacteria, including Acinetobacter calcoaceticus, Aeromonas hydrophila subsp. hydrophila, Bacillus subtilis, Burkholderia cepacia, Citrobacter freundii, Citrobacter koseri, Escherichia coli, Enterobacter cloacae, Klebsiella oxytoca, Pseudomonas aeruginosa, Pseudomonas fluorescens, Pseudomonas putida, Pseudomonas stutzeri, Ralstonia pickettii, Raoultella terrigena, Streptococcus pyrogenes, Yersinia ruckeri.</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 volume	100 mL											
Sample parameters	<p>pH range 5–10  Sample temperature range 15–45 °C (59–113 °F)  Environmental operating range 5–40 °C (59–104 °F)  Free chlorine concentration &lt;5ppm  Total Alkalinity &lt;1000 ppm  Total Hardness &lt;1000 ppm</p> <p>Sample should filter in less than 10 minutes.</p>											
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 systems treated with polymeric biguanide or THPS. It should not be used to test such systems.</p>											
Operator time	5–10 minutes											
Test time	25 minutes											
Sample point fitting	Supplied with both ½" and ¾" female threaded fittings. Additional sample points are available (part no. 100171).											
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.											