

## Single Syringe Legionella Field Test™

- This kit is designed to test for Legionella 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.
- Mistifiers, sprinklers, air washers, humidifiers and more.



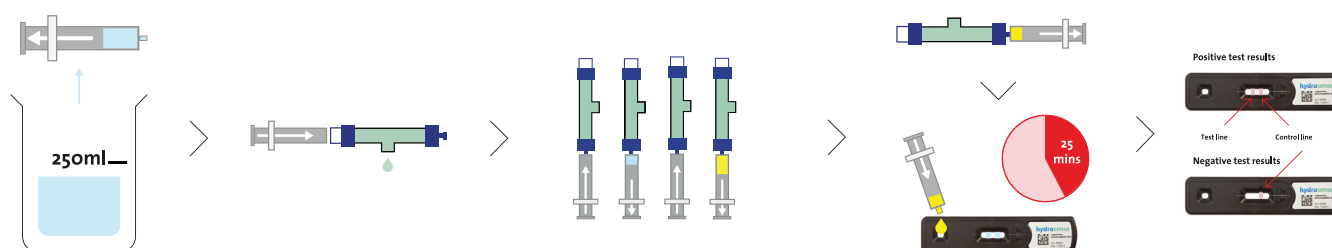
\*The Centers for Disease Control and Prevention (CDC) is a federal agency that conducts and supports health promotion, prevention and preparedness activities in the United States, with the aim of improving overall public health.

Single Syringe Legionella Field Test™ product code 100198

The test contains all the items required to perform 1 test.

- The test detects Legionella pneumophila serogroup 1 (LpSG1).
- With filtration step, the sensitivity of the water test is 100 CFU/L.
- 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.
- Provides straightforward results, on-site, within 25–35 minutes.
- The test is simple to use, no interpretation is required.
- The test helps to minimise delays and downtime.
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- 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.



## Single (Syringe) Legionella Field Test™ Kit

Bacteria detected	Legionella pneumophila serogroup 1										
Detection method	Lateral flow immunochromatographic assay										
Lower limit of detection	As low as 100 CFU/L (0.1 CFU/mL)										
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 pyrogenes</i>, <i>Yersinia ruckeri</i>.</p> <p>No cross reactions have been observed at concentrations <math>\leq 10^9</math> CFU/L. <i>Staphylococcus aureus</i> has been observed to cross-react with the test at concentrations <math>&gt; 10^8</math> CFU/L, which is higher than found in most water samples.</p> <table border="1"> <thead> <tr> <th>Organism</th><th><math>\geq</math>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	$\geq$ 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
Organism	$\geq$ cfu/mL										
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S.aureus	2.00E+08										
Test volume	100 $\mu$ L										
Suggested sample volume	250 mL										
Sample parameters	Sample should filter in less than 10 minutes.										
Biocides	<p>The product has been tested with a range of common biocides and biocidal dispersants used in Legionella control, at their normal maximum operating concentration. Active ingredients tested include: glutaraldehyde, dodecyl-dimethyl-ammonium chloride, isothiazoles, dibromonitritolpropionamide, 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	5–10 minutes										
Test time	25 minutes										
Shelf life	18 months from date of manufacture, when stored at room temperature ( $<30^\circ\text{C}$ ) in original packaging. All test strips are hermetically foil-wrapped and with a printed expiry date.										