

Enterprise *Legionella* Field Test™ Kit

The Legionella Small Enterprise Kit is the most versatile technology from Hydrosense for the rapid detection of *Legionella* bacteria both in water samples and biofilms taken from any source.

- Both water samples and biofilms
- Fast results
- Easy to use
- High sensitivity and reliable
- Supports risk assessment

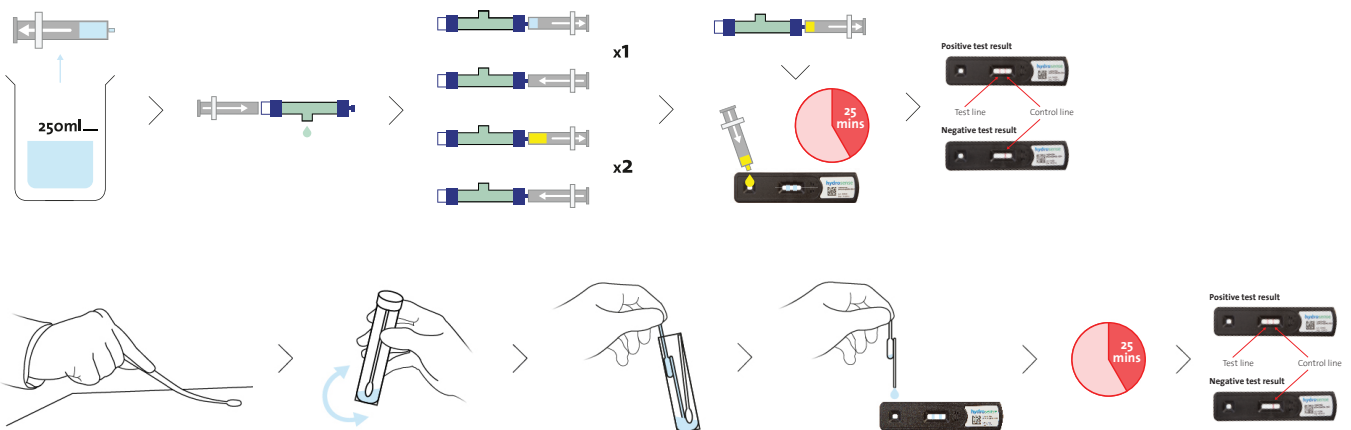


Legionella Field Test™ product code 100202

The test contains all the items required to perform 4 tests (2 water samples plus 2 biofilm tests).

- This test is designed for any water system such as hot and cold water systems, showers, industrial and domestic water systems (e.g. cooling towers), spas and bathtubs.
- The filtration step concentrates the *Legionella* bacteria to achieve a sensitivity level of 100 CFU/L in water samples, and a sensitivity of 200 CFU/L in biofilms.
- Pre-filled syringe containing recovery buffer and pre-filled vials, no need to measure or dilute solutions.
- The test is simple to use, with no interpretation required.
- Results are easy to read on site within 25–35 minutes.
- Minimises delays and downtime.
- Regular use increases confidence in your *Legionella* control.
- App reader provides independent record of test (*Hydrosense Legionella* available on the App store).

The Hydrosense Enterprise *Legionella* Field Test™ uses an immunochromatographic assay to detect the presence of cell surface antigens from *Legionella* bacteria in a sample. The presence of antigen causes the “Test Line” to turn red in colour. A “Control Line” is included which will always turn red if the test has been performed correctly.



Legionella Small Enterprise Kit

Bacteria detected	<i>Legionella pneumophila</i> serogroup 1
Detection method	Lateral flow immunochromatographic assay
Lower limit of detection	100 CFU/L for water samples and 200 CFU/L for biofilms
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 $\leq 10^9$ CFU/L. <i>Staphylococcus aureus</i> has been observed to cross react with the test at concentrations $> 10^8$ CFU/L, which is higher than found in most water samples.</p> <p><i>Legionella pneumophila</i> serogroups 4 & 7 cross react with the Test at concentrations $> 6 \times 10^9$ CFU/L. The test does not react with any other <i>L. pneumophila</i> serogroups or <i>L.</i> species tested.</p>
Test volume	100 μ L
Suggested sample volume/area	250 mL (water samples)/ 10 cm ² (biofilms)
Sample parameters	Sample should filter in less than 10 minutes (water samples). Resuspension of the bacteria should be done in 2 mL of recovery solution. Shake the tube for at least 20 seconds (biofilms).
Biocides	<p>The product has been tested with a range of common biocides and biocides used in <i>Legionella</i> 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.</p>
Operator time	5–10 minutes
Test time	25 minutes
Shelf life	At least 6 months from date supplied, when stored at room temperature ($< 30^\circ\text{C}$) in original packaging. All test strips are hermetically foil-wrapped with a printed expiry date.