

System *Legionella* Field Test™ Kit

The System *Legionella* Field Test™ Kit is a breakthrough technology from Hydrosense for the rapid detection of *Legionella* bacteria in water samples taken from pipework fittings.

- Fast results
- In-line sampling
- High sensitivity
- Ideal for plumbing system and industrial samples

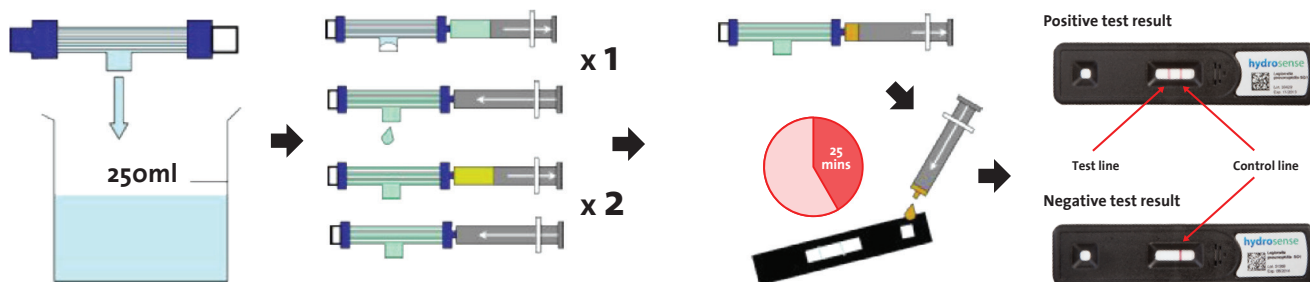


System *Legionella* Field Test™ Kit product code 100182

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

- This kit is designed for connection to plumbing systems, such as hot and cold water pipework and industrial water systems, such as cooling towers.
- The filtration step needs no pumping: just connect the sample point to the water system and use the system pressure to drive the filtration.
- Single-use filtration modules.
- Pre-filled syringe containing recovery buffer, no need to measure or dilute solutions.
- The test is simple to use and fast, with no interpretation required.
- Results are easy to read and obtained within 30 to 35 minutes.
- An immediate result minimizes delays and downtime.
- Use can reduce the risk of outbreaks and litigation.
- Regular use will increase confidence in your *Legionella* control.

The Hydrosense System *Legionella* Field Test™ Kit 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 should always turn red if the test has been performed correctly.



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Bacteria detected	<i>Legionella pneumophila</i> 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 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 $> 10^9$ CFU/sample. The test does not react with any other <i>L. pneumophila</i> serogroups or <i>L. species</i> tested.</p>
Test volume	100 μ 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 biodispersants used in <i>Legionella</i> control, at their normal maximum operating concentration. Active ingredients tested include: glutaraldehyde, didecyl-dimethyl-ammonium chloride, isothazoles, dibromonitropropionamide, 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	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.