

Legionella Field Test™

...delivering microbiology results in minutes instead of days

- Fast results
- Easy to use
- Practical design for field deployment
- Qualitative results

The Legionella Field Test™ is a breakthrough technology from hydrosense® for the rapid detection of *Legionella* bacteria in water – delivering test results in minutes instead of days.

The test kit contains everything required to perform 10 tests – including sample collection containers and disposable pipettes.

- These tests are optimised for use with **hot and cold water** systems, whirlpool **spas**, **showers**, **cooling towers** and industrial water systems.
- The test is **simple** to use and **fast**, with no interpretation required.
- Results are **easy to read** and obtained within 25 minutes.
- There are no chemicals to measure or handle.
- The test allows **immediate understanding** and response to the water conditions.
- Use can **reduce risk** of outbreaks and litigation.
- Regular use will **increase confidence** in your *Legionella* control.



Legionella Field Test™
Product code 100104

The hydrosense® 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 should always turn red if the test has been performed correctly.

Alternative versions of the test for specialist applications are also available

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www.hydrosense.biz

TECH0017v1.1

hydrosense®

Product details

Bacteria detected	<i>Legionella pneumophila</i> serogroup 1
Detection method	Lateral flow immunochromatographic assay
Lower limit of detection	Approx. 10 ⁵ CFU/L (100 CFU/mL)

Specificity

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*. No cross reactions observed at concentrations $\leq 10^9$ CFU/L. *Staphylococcus aureus* has been observed to cross react with the test at concentrations $> 10^8$ CFU/L. *Legionella pneumophila* serogroups 4 & 7 cross react with the test at concentrations $> 6 \times 10^9$ CFU/L. The test does not react with any other *L. pneumophila* serogroups or *L.* species tested.

Test volume	100 μ L	Exact volume disposable pipette provided
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Sample parameters	pH range	5-10
	Sample temperature range	15-45 °C (59-113 F)
	Environmental operating range	15-40 °C (59-104 F)
	Free chlorine concentration	< 5ppm
	Total Alkalinity	<1000 ppm
	Total Hardness	<1000 ppm

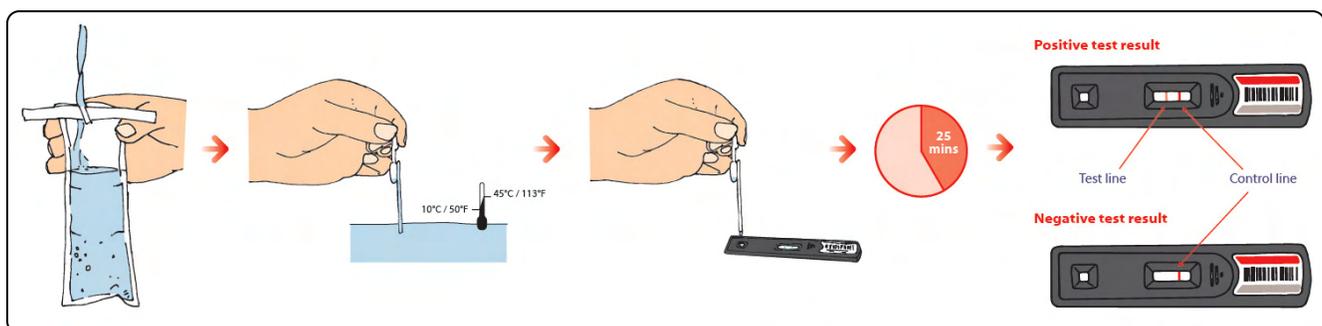
Biocides

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, didecyl-dimethyl-ammonium chloride, isothiazoles, dibromonitripropionamide, ionic and non-ionic surfactants. The test gives a false positive if used with polymeric biguanide or THPS.

Operator time	<2 minutes
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Development time	25 minutes
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Shelf life	18 months from manufacture when stored at room temperature (<30 °C) in original packaging
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