

Lovibond® Water Testing

Tintometer® Group



Risk Assessment Legionella Field Test™

This kit is designed to test for Legionella in water and biofilms 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 & more.



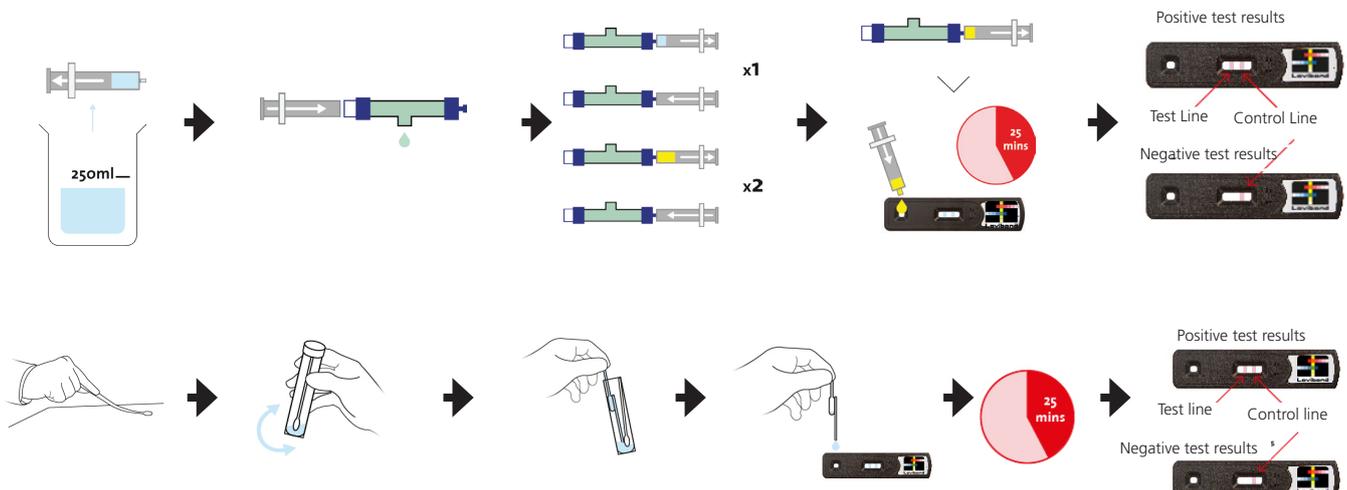
Risk Assessment Legionella Field Test™
product code 56B006501

*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.

The kit contains all the items required to perform 4 tests (2 water and 2 biofilm tests).

- The test detects *Legionella pneumophila* serogroup 1 (LpSG1).
- With filtration step, the sensitivity of the water test is 100 CFU/L. The sensitivity of the biofilm test is 200 CFU/ swabbed area.
- The test detects Viable-But-Non-Culturable Bacteria and Legionella SG1 in all stages of its life-cycle.
- Provides straightforward results, on-site, within 25–35 minutes.
- The kit includes pre-filled syringes and vials containing recovery buffer. No need to measure or dilute solutions.
- The test is simple to use, no interpretation and helps to minimise delays and downtime.
- Regular use increases confidence in Legionella controls.
- The smartphone App reader provides independent records of results (download the App for free from the App store or Play Store).

The Lovibond® 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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Legionella Risk Assessment Kit

Bacteria detected *Legionella pneumophila* serogroup 1

Detection method Lateral flow immunochromatographic assay

Limit of detection 100 CFU/L for water samples and 200 CFU per swabbed area for biofilms

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 pyogenes*, *Yersinia ruckeri*.

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

The Lovibond® *Legionella pneumophila* SG1 test has been shown to produce weak positive results with other legionella pneumophila serogroups at the cfu/mL stated in the above table.

Test Volume 100 µL

Suggested sample volume 250 mL (water samples) / 10 cm² (biofilms)

Sample parameters

pH range	5–10
Sample temperature range	15–45 °C (59–113 °F)
Environmental operating range 1	5–40 °C (59–104 °F)
Free chlorine concentration	<5ppm
Total Alkalinity	<1000 ppm
Total Hardness	<1000 ppm

Water Samples: Sample should filter in less than 10 minutes

Biofilm Samples: Resuspension of the bacteria should be done in 2 mL of recovery solution. Shake the tube for at least 20 seconds

Biocides 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.

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.

Operator time 5–10 minutes

Test time 25 minutes

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.