

Legionella – Early Warning Indicative Test

- *Legionella* results within 25 minutes (excluding filtration step)
- Quick results and easy-to-use
- Different form of kits available for different applications and sensitivity
- 18 months shelf-life at room temperature

The Lovibond® *Legionella* system detects *Legionella pneumophilla* serogroup 1, the most common causative agent of Legionnaires disease in humans. Infection is via inhalation of aerosols containing the bacteria which causes a pneumonia-like disease that can prove fatal, especially in immuno suppressed individuals.

Technical Features

The *Legionella* Field Test uses an immuno-chromatographic 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 always turns red on successful completion of the test.

This test can provide a rapid indication of the presence of *Legionella pneumophila* serogroup 1, the most commonly recorded cause of Legionnaires Disease. This rapid test is a very useful addition to periodic laboratory culture tests for *Legionella*. It should not be used as



Negative result – only control line showing



Positive result

the sole method for assessing the presence of *Legionella*. If results with this rapid test indicate the presence of *Legionella*, then confirmation with a laboratory culture test is essential. For more information please visit our website.

Bacteria detected	<i>Legionella pneumophila</i> serogroup 1
Detection method	Lateral flow immuno-chromatographic assay
Test volume	100 µL, exact volume disposable pipette provided
Specificity	Tested against a wide range of waterborne bacteria, including <i>Acinetobacter calcoaceticus</i> , <i>Aeromonas hydrophila subsp. 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> . No cross reactions observed at concentrations 10^9 CFU/sample. <i>Staphylococcus aureus</i> has been observed to cross react with the test at concentrations >math>10^8</math> CFU/sample. <i>Legionella pneumophila</i> serogroups 4 & 7 cross reacts with the test at concentrations >math>10^9</math> CFU/sample. The test does not react with any other L. pneumophila serogroup or L. species tested.
Sample parameters	pH 5-10
Sample temp	15-45°C (59-113°F)
Operating temp	15-40°C (59-104°F)
Operator time	~ 1 minute
Test development time	25 minutes
Shelf-life	18 months from manufacture when stored at room temperature (<math><30^{\circ}\text{C}</math>) in original packaging
Biocides	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, isothazoles, dibromonitropropionamide, ionic and non-ionic surfactants. The test gives a false positive if used with polymeric biguanide.