

1 HOUR LEGIONELLA SPP TEST ON PRIMELAB 1.0 PHOTOMETER

QUANTITATIVE ($60-10^6$ CFU/L) AND CERTIFIED (ACC. TO ISO), PATENTED IMMUNO-MAGNETIC METHOD

LEGIONELLA - WHAT IS IT?

In aerosols generated by a shower head of a hospital or a hotel, in a car wash or in an industrial cooling system, there may be water droplets brimming with bacteria. This is how Legionella reaches us, through inhalation.

Legionella sp. can travel huge distances. Cases of infection have been reported in a radius of up to 10 km away from the source. Near or far, if Legionella reaches our lungs it will behave in a very similar way, either colonizing or invading. In a few days pneumonia will develop.

Legionellosis is a systemic infectious disease that primarily affects the lungs and has a mortality rate between 5% and 30%.

Of the total cases reported, 95-98% can be attributed to Legionella pneumophila. This disease is a hot topic in the field of Public Health, as its average mortality rate is 12%-15% and it can easily reach 30-50% in patients with weak immune systems or who do not receive antibiotics promptly.

ADVANTAGE OF LEGIPID[®] + PRIMELAB

Current standard recommended Legionella test is based on a cultural method, needing up to 2 weeks for Legionella bacteria to grow and to be counted which is far too long to take action and to prevent danger.

The new Legipid[®] test is based on a patented, immunomagnetic method, detecting only living Legionella sp. As tests develops a readable color, it now got adapted on the PrimeLab 1.0 multitest photometer.

legipid[®]
LEGIONELLA FAST DETECTION

HOW DOES IT WORK?

Whilst the common cultural method needs an agar on which legionella have to grow to be counted after several days, Legipid[®] works differently.

1 litre of sample water is filtered to concentrate Legionella on a filter paper. Legionella on filter paper gets released in a small vial where "L1" is added. "L1" is a patented solution, containing immuno-magnetic particles (antibodies), only attaching to living Legionella sp.

After several washing steps, a colouring solution is added to colour the captured Legionella.

Concentration of the colour is in relation to concentration of Legionella in the sample which makes it possible to be tested by the PrimeLab 1.0. Result is displayed as cfu per litre.

TEST RESULT IN JUST 1 HOUR

QUANTITATIVE $60-10^6$ CFU/L

CERTIFIED AGAINST CULTURE

NEW, PATENTED METHOD

LIVING LEGION. SP DETECTED



SAMPLING

FILTERING

CAPTURING

MARKING

DETECTING

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LEGIPID[®] TEST KIT



Legipid[®] test kit comes with all you need to run Legionella tests, apart from the PrimeLab plastic adapter for 1ml vials and a filter kit to filter your water sample.

Both, adapter and filter kit, is available as accessories. Legipid[®] is offered as a kit of 10, 40 or 100 units. Each test requires just one „ZERO“.

REQUIREMENTS

For all those who currently use a PrimeLab, all you need, is an update through the PrimeLab Desktop Assistant Software or the App, an activation code for ID 147 (Legionella) and a small plastic adapter to use 1ml Legionella vials. If you do not yet have a PrimeLab, it benefits from more than 120 different test methods, starting with A for Alkalinity to Z for Zinc. JENCOLOR sensor technology allows parallel testing on 400 different wavelengths ensuring outmost accuracy of test results.

Wireless bluetooth technology, free software and App, individual parameter setup, free cloud service, dosage recommendations based on your individual water treatment chemicals, activation of more parameters at any time, reports per account (test sources), Turbidity (NTU) along with PTSA and Fluorescein by adapter... to name just a few of the benefits of the PrimeLab 1.0 Multitest photometer.

HIGH-RISK FACILITIES

Legionellosis is a worldwide health issue. Each year, 6,000 cases are registered in Europe and between 8,000 and 18,000 people are hospitalized in the USA.

Mortality rate figures range from 6% to 15% every year, likely to be an underestimation, since many countries are unable to provide mortality figures.

High-risk facilities include:

- Cooling towers and evaporative condensers
- Hot water systems with water tanks and return circuits
- Heated water systems with recirculation through high speed water jets or air injection
- Industrial humidifiers
- Internal systems for cold water intended for human consumption (pipes, water tanks, cisterns or mobile tanks)
- Hot water systems without a return circuit
- Evaporative cooling equipment which sprays water
- Humidifiers
- Ornamental fountains
- Sprinkler water systems in urban environments
- Fire extinguishing systems that uses water
- Outdoor aerosol equipment that uses water
- Other devices that store water and produce aerosols
- Respiratory therapy equipment
- Respirators
- Nebulisers



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CERTIFICATION

AOAC[®] Performance TestedSM

Certificate No.

111101

The AOAC Research Institute hereby certifies that the performance of the test kit known as:

Legipid[®] Legionella Fast Detection

manufactured by

Biótica, Bioquímica Analítica, S.L.

Parque Científico, Tecnológico y Empersarial – Universidad Jaume I

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This method has been evaluated in the AOAC[®] Performance Tested MethodsSM Program, and found to perform as stated by the manufacturer contingent to the comments contained in the manuscript. This certificate means that an AOAC[®] Certification Mark License Agreement has been executed which authorizes the manufacturer to display the AOAC Performance TestedSM certification mark along with the statement - "THIS METHOD'S PERFORMANCE WAS REVIEWED BY AOAC RESEARCH INSTITUTE AND WAS FOUND TO PERFORM TO THE MANUFACTURER'S SPECIFICATIONS" - on the above mentioned method for a period of one calendar year from the date of this certificate (January 1, 2015 – December 31, 2015). Renewal may be granted at the end of one year under the rules stated in the licensing agreement.

Deborah McKenzie

Deborah McKenzie, Senior Director
Signature for AOAC Research Institute

March 2, 2015

Date