

Legionella Testing Services

Faster. More Accurate. More Comprehensive.



Potable Water | Utility Water

Phigenics Validation Test[®] Phigenics Legionella Testing Services for Validation of Water Management Programs









Phigenics Analytical Services Laboratory (PASL) provides comprehensive *Legionella* testing for all water systems found in commercial, institutional, and industrial facilities. PASL delivers the fastest and most accurate *Legionella* testing results by applying the Phigenics patented **TimeZero™** test method for quantitative measurement of viable *Legionella* and Total Heterotrophic Aerobic Bacteria (THAB) as well as the **P**higenics **U**ltra-**R**apid DNA **E**xtraction (P.U.R.E.)[™] Protocol, which guarantees a **Next Day Legionella PCR[™]** result.

Benefits

Compared to other methods, the Phigenics Validation Test[®] (PVT) using the TimeZero[™] method is:

Faster because culturing occurs at "time zero" (t = 0) and results are typically communicated 4 days after sampling in the field.

More Accurate because variations due to changes in water samples during shipment are entirely eliminated.

More Comprehensive because *Legionella* bacteria and Total Heterotrophic Aerobic Bacteria (THAB) are obtained from the same sample with one protocol.

Compared to other methods, the PVT Next Day *Legionella* PCR[™] is:

Faster because of the Phigenics Ultra-Rapid DNA Extraction (P.U.R.E.)[™] Protocol, which guarantees a next day PCR result.

More Accurate because the PVT Next Day *Legionella* PCR[™] process, including P.U.R.E[™], is ISO 12869:2012 compliant and the PCR is AFNOR certified.

More Comprehensive because of increased species coverage at 21, compared with 10 previously. Includes *L. pneumophila* serogroups 1 and 2-14.



PVT Next Day *Legionella* PCR[™]

Polymerase Chain Reaction (PCR) provides an analysis of a water sample at a genetic level. Detection of *Legionella* species DNA by the Next Day *Legionella* PCR[™] is used to deliver fast, preliminary results to indicate whether water systems are well-managed. It does this by providing molecular-marker negative screen data. If the test result is negative, then there is a 99% probability the traditional culture-based results will also be negative.



Thorough Analytical Reporting, Digital Imaging, and Chain of Custody



Phigenics Legionella Tests with TimeZero[™] and Next Day Legionella PCR[™]



PVT PREMIUM includes TimeZero[™] test method for *Legionella* species and THAB, Next Day Legionella PCR[™], and the Standard *Legionella* 11731 ISO spread plate culture method.



PVT SELECT includes TimeZero[™] test method for *Legionella* species and THAB and Next Day *Legionella* PCR[™].

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Phigenics Validation Tests							
Attribute	Phigenics Validation Test [®]	Phigenics Validation Test®					
Product Number	MB-210	MB-600	MB-300	MB-100	MB-1410	MB-1010	MB-400
Culture inoculated at TimeZero™ (t=0)	\checkmark	\checkmark	\checkmark	\checkmark	\oslash	\oslash	\checkmark
Utilizes Phigenics Ultra-Rapid DNA Extraction (P.U.R.E.)™ Protocol	\checkmark	\checkmark	\oslash	\oslash	\checkmark	\oslash	\oslash
Time Required to Receive Reports*	Next Day / 4 Days / 11 Days	Next Day / 4 Days	4 Days / 11 Days	4 Days	Next Day	11 Days	4 Days
Limit of Detection (CFU/mL)	1**	10	1**	10	~1	1**	100
Differentiates <i>L. pneumophila</i> SG 1, <i>Lp</i> SG 2-14, and <i>Legionella</i> Species	\checkmark	\checkmark	\checkmark	\checkmark	\oslash	\checkmark	\oslash
Reports Next Day Molecular Marker Negative Screen	\checkmark	\checkmark	\oslash	\oslash	\checkmark	\oslash	\oslash
Measures Total Heterotrophic Aerobic Bacteria (THAB)	\checkmark	\checkmark	\checkmark	\checkmark	\oslash	\oslash	\checkmark
Conforms to ISO 11731 Spread Plate Culture Method	\checkmark	\oslash	\checkmark	\oslash	\oslash	\checkmark	\oslash

*From sample in the field

**The practical limit of quantification according to the results published by the CDC is about 10 CFU/mL



Phigenics Laboratory Certifications

Phigenics Analytical Services Laboratory (PASL) is certified as proficient in the Environmental *Legionella* Isolation Techniques Evaluation (ELITE) program administered by the Centers for Disease Control and Prevention (CDC) for using the Phigenics Patented TimeZero[™] test method and the ISO 11731 spread plate method. PASL has passed every proficiency test since the beginning of the CDC ELITE program. PASL is a New York State ELAP-certified laboratory for the analysis of potable and non-potable water and provides a wide range of other testing services for microbial hazards such as *Pseudomonas, Stentrophomonas, Acinetobacter, Mycobacterium, Aspergillus,* and *Fusarium*. PASL also provides complete testing services required by the Safe Drinking Water Act.

Phigenics Analytical Services Laboratory Call us today at 844.850.4087 or go to **www.phigenics.com/testing**

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