

Legionella Testing Services

Faster. More Accurate. More Comprehensive.



Potable Water | Utility Water



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 PCRTM 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 PCRTM 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.

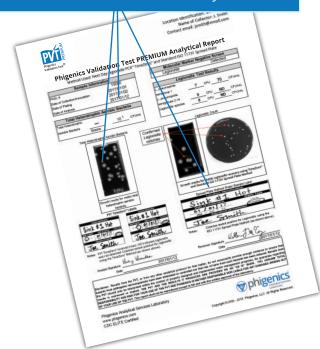


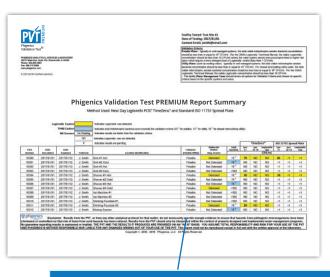
Thorough Analytical Reporting, Digital Imaging, and Chain of Custody



Digital Image Record

- Results at next day, 4 days, and 11 days
- Microbial growth
- ID labels to establish chain of custody





Comprehensive summary for all samples submitted in one easy-to-read table

Phigenics *Legionella* Tests with TimeZero™ and Next Day *Legionella* PCR™



PVT PREMIUM includes TimeZeroTM test method for *Legionella* species and THAB, Next Day Legionella PCRTM, and the Standard *Legionella* 11731 ISO spread plate culture method.



PVT SELECT includes TimeZero $^{\rm TM}$ test method for Legionella species and THAB and Next Day Legionella PCR $^{\rm TM}$.

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Phigenics Validation Tests

Attribute	Phigenics Validation Test®	Phigenics Validation Test [®]	Phigenics Validation Test®	Phigenics Validation Test®	Phigenics Validation Test ®	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)	V	V	\checkmark	V	\bigcirc	\bigcirc	✓
Utilizes Phigenics Ultra-Rapid DNA Extraction (P.U.R.E.)™ Protocol	✓	√	\oslash	\oslash	V	\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	V	√	√	V	\oslash	√	\oslash
Reports Next Day Molecular Marker Negative Screen	V	V	\bigcirc	\bigcirc	V	\bigcirc	\bigcirc
Measures Total Heterotrophic Aerobic Bacteria (THAB)	√	√	\checkmark	√	\bigcirc	\bigcirc	√
Conforms to ISO 11731 Spread Plate Culture Method	√	\bigcirc	√	\oslash	\bigcirc	\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, Acineto-bacter, 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