

Healthcare • Hospitality • Commercial • Government • Manufacturing



***Legionella* Testing Services**

Faster. More Accurate. More Comprehensive.



Potable Water | Non-Potable Water



Phigenics *Legionella* Testing Services

for Validation of Water Management Programs



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.



Next Day LegiPlex™ PCR

Reports Next Day*

Faster: Molecular results of the type of *Legionella* present in a water sample are available the day after sampling.

More Accurate: PVT Next Day LegiPlex™ PCR (Polymerase Chain Reaction), when used as a negative screen, has a >99% negative predictive value.

More Comprehensive: Increased molecular identification of *Legionella pneumophila* sg 1, *Legionella pneumophila* sg 2-15, and *Legionella* genus.



VIABLE™

Reports in 3 DAYS*

Faster: Our proprietary method allows for viability results to be reported 3-4 days after sampling as compared to 10-14 days with the traditional culture methods.

More Accurate: VIABLE is a highly sensitive diagnostic with a limit of detection of 1 viable cell/1mL, with an option for a limit of detection of 1 viable cell/100mL. With increased accuracy and the ability to detect VBNC (Viable But Non-Culturable; VBNC) *Legionella*, PVT VIABLE™ provides the most defensible results.

More Comprehensive: VIABLE utilizes LegiPlex PCR to identify the type of viable *Legionella* detected as *Legionella pneumophila* serogroup 1, *Legionella pneumophila* serogroup 2-15, and *Legionella* genus.



TimeZero™ & THAB

Reports in 4 DAYS*

Faster: Culturing occurs at “time zero” (t = 0) and results are typically communicated 4 days after sampling in the field.

More Accurate: Variations due to changes in water samples during shipment are entirely eliminated.

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

*After receipt to laboratory

Phigenics *Legionella* Testing Services

Faster. More Accurate. More Comprehensive.

TESTING COMPONENTS



Next Day LegiPlex™ PCR
Reports Next Day



VIABLE™
Reports in 3 DAYS



TimeZero™ & THAB
Reports in 4 DAYS



Standard ISO11731
Reports in 11 DAYS

TESTING BUNDLES



Phigenics
Validation Test®



PVT SELECT includes TimeZero™ test method for *Legionella* species and Total Heterotrophic Aerobic Bacteria (THAB) and Next Day LegiPlex™ PCR.



Phigenics
Validation Test®



PVT PREMIUM includes TimeZero™ test method for *Legionella* species and Total Heterotrophic Aerobic Bacteria (THAB), Next Day LegiPlex™ PCR and the Standard *Legionella* 11731 ISO spread plate culture method.

For more information on PVT *Legionella* Tests, including additional bundles and panels, visit: info.phigenics.com/testing



PVT VIABLE - Viability Identification Assay By *Legionella* Enrichment

PVT VIABLE™ detects viable *Legionella* bacteria found in building water systems in as little as 72 hours. By combining traditional culture techniques with **LegiPlex™** this new method results in our fastest turnaround time and highest sensitivity to date. This innovation also detects *Legionella* bacteria that are unable to form colonies in the conventional ISO spread plate method (Viable But Non-Culturable; VBNC). False-negative results in the conventional culture method are widely recognized as a serious problem because VBNC cells have been proven to be potentially infective and pathogenic.

PVT Next Day LegiPlex™ PCR

Delivers rapid results by providing the serogroup of *Legionella* present in a water sample the day after sampling. **LegiPlex™** is a simultaneous multi-reaction (multiplex) real-time PCR for the detection of *Legionella pneumophila* sg 1, *Legionella pneumophila* sg 2-15, and *Legionella* genus. This industry-leading assay meets the methodological, performance, and quality control requirements outlined by the International Standards Organization (ISO), achieving ISO 12869:2019 compliance for a limit of detection and specificity. **PVT Next Day LegiPlex™ PCR** provides building owners with critical data about the safety of their water systems, allowing them to make defensible decisions.



Thorough Analytical Reporting, Digital Imaging, and a Chain of Custody



Ordering



Shipping



Sampling



Receiving



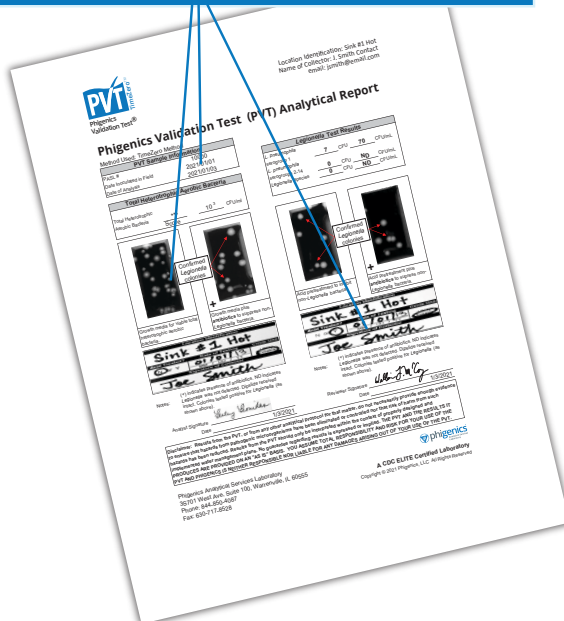
Analyzing



Reporting

Digital Image Record

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



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



Additional Analytical Services

Phigenics provides a wide range of other testing services for microbial hazards such as *Pseudomonas*, *Stenotrophomonas*, *Acinetobacter*, *Mycobacterium*, *Aspergillus*, and *Fusarium*. PASL also provides complete testing services required by the Safe Drinking Water Act.