



Phigenics
Validation Test®

PHIGENICS ANALYTICAL SERVICES LABORATORY
Phone: 844-850-4087
www.phigenics.com
CDC ELITE Certified

Facility Tested: Test Site #1
Date of Testing: 2019/01/01
Contact Email: jsmith@email.com

Validation Criteria:
Potable Water - typically in well managed systems, the total viable heterotrophic aerobic bacterial concentration should be less than or equal to 10³ CFU/mL. Per the OSHA *Legionella* Technical Manual, the viable *Legionella* concentration should be less than 10 CFU/mL unless the water system serves immunocompromised or higher risk users which require a more stringent level of *Legionella* control (less than 1 CFU/mL).
Utility Water (such as cooling water) - typically in well managed systems, the total viable heterotrophic aerobic bacterial concentration should be less than or equal to 10⁴ CFU/mL. For closed recirculating utility water, the total viable heterotrophic aerobic bacterial concentration should be less than or equal to 10³ CFU/mL. Per the OSHA *Legionella* Technical Manual, the viable *Legionella* concentration should be less than 10 CFU/mL.
The facility **Water Management Team** should review all options for Validation Criteria and choose its specific criteria based on the specific systems and users.

Phigenics Validation Test PREMIUM Report Summary

Method Used: Next Day *Legionella* PCR™, TimeZero™, and Standard ISO 11731 Spread Plate

| | | |
|---------------------------|--|--|
| Legionella Caution | | Indicates <i>Legionella</i> was detected. |
| THAB Caution | | Indicates total heterotrophic bacteria count exceeds the validation criteria (10 ³ for potable, 10 ⁴ for utility, 10 ³ for closed recirculating utility). |
| NO Concern | | Indicates results are better than the validation criteria. |
| | | Indicates <i>Legionella</i> was not detected. |
| | | Indicates results are pending. |

| PASL Number | Date Inoculated | Date Analyzed | Collector | Location Identification | Category (Potable/Utility) | Molecular Marker Negative Screen | Total Bacteria | TimeZero™ | | | Standard ISO | | |
|-------------|-----------------|---------------|-----------|-------------------------|----------------------------|----------------------------------|-----------------|-----------|-----------|----------------|--------------|-----------|----------------|
| | | | | | | | | Lpn S1 | Lpn S2-14 | Legionella Spp | Lpn S1 | Lpn S2-14 | Legionella Spp |
| | | | | | | | | CFU/mL | | | | | |
| 100000 | 2019/01/01 | 2019/01/12 | J. Smith | Sink #1 Hot | Potable | Detected | 10 ⁴ | 70 | ND | ND | 26 | <1 | <1 |
| 100001 | 2019/01/01 | 2019/01/12 | J. Smith | Sink #2 Cold | Potable | Not Detected | 10 ² | ND | ND | ND | <1 | <1 | <1 |
| 100002 | 2019/01/01 | 2019/01/12 | J. Smith | Sink #3 Hot | Potable | Detected | 10 ³ | ND | ND | ND | <1 | <1 | <1 |
| 100003 | 2019/01/01 | 2019/01/12 | J. Smith | Sink #4 Cold | Potable | Not Detected | 10 ³ | ND | ND | ND | <1 | <1 | <1 |
| 100004 | 2019/01/01 | 2019/01/12 | J. Smith | Sink #5 Hot | Potable | Not Detected | 10 ⁴ | ND | ND | ND | <1 | <1 | <1 |
| 100005 | 2019/01/01 | 2019/01/12 | J. Smith | Sink #6 Cold | Potable | Not Detected | <100 | ND | ND | ND | <1 | <1 | <1 |
| 100006 | 2019/01/01 | 2019/01/12 | J. Smith | Shower #1 Hot | Potable | Not Detected | <100 | ND | ND | ND | <1 | <1 | <1 |
| 100007 | 2019/01/01 | 2019/01/12 | J. Smith | Shower #2 Cold | Potable | Not Detected | <100 | ND | ND | ND | <1 | <1 | <1 |
| 100008 | 2019/01/01 | 2019/01/12 | J. Smith | Shower #3 Hot | Potable | Detected | 10 ³ | 30 | ND | ND | 28 | <1 | <1 |
| 100009 | 2019/01/01 | 2019/01/12 | J. Smith | Shower #4 Cold | Potable | Not Detected | <100 | ND | ND | ND | <1 | <1 | <1 |
| 100010 | 2019/01/01 | 2019/01/12 | J. Smith | Shower #5 Hot | Potable | Not Detected | 10 ³ | ND | ND | ND | <1 | <1 | <1 |
| 100011 | 2019/01/01 | 2019/01/12 | J. Smith | Ice Machine #1 | Potable | Not Detected | 10 ⁵ | ND | ND | ND | <1 | <1 | <1 |
| 100012 | 2019/01/01 | 2019/01/12 | J. Smith | Ice Machine #2 | Potable | Detected | 10 ³ | 20 | ND | ND | <1 | <1 | <1 |
| 100013 | 2019/01/01 | 2019/01/12 | J. Smith | Ice Machine #3 | Potable | Detected | 10 ² | ND | ND | ND | <1 | <1 | <1 |
| 100014 | 2019/01/01 | 2019/01/12 | J. Smith | Drinking Fountain #1 | Potable | Not Detected | 10 ³ | ND | ND | ND | <1 | <1 | <1 |
| 100015 | 2019/01/01 | 2019/01/12 | J. Smith | Drinking Fountain #2 | Potable | Not Detected | 10 ² | ND | ND | ND | <1 | <1 | <1 |
| 100016 | 2019/01/01 | 2019/01/12 | J. Smith | Drinking Fountain #3 | Potable | Not Detected | 10 ⁴ | ND | ND | ND | <1 | <1 | <1 |
| 100017 | 2019/01/01 | 2019/01/12 | J. Smith | Cooling Tower #1 | Utility | Detected | 10 ⁴ | ND | ND | ND | <10 | <10 | <10 |
| 100018 | 2019/01/01 | 2019/01/12 | J. Smith | Cooling Tower #2 | Utility | Detected | 10 ⁶ | 60 | ND | ND | 130 | <10 | <10 |
| 100019 | 2019/01/01 | 2019/01/12 | J. Smith | Cooling Tower #3 | Utility | Detected | 10 ⁵ | ND | ND | ND | <10 | <10 | <10 |



Disclaimer: Results from the PVT, or from any other analytical protocol for that matter, do not necessarily provide enough evidence to ensure that hazards from pathogenic microorganisms have been eliminated or controlled nor that risk of harm from such hazards has been reduced. Results from the PVT should only be interpreted within the context of properly designed and implemented water management programs. No guarantee regarding results is expressed or implied. THE PVT AND THE RESULTS IT PRODUCES ARE PROVIDED ON AN "AS IS" BASIS. YOU ASSUME TOTAL RESPONSIBILITY AND RISK FOR YOUR USE OF THE PVT AND PHIGENICS IS NEITHER RESPONSIBLE NOR LIABLE FOR ANY DAMAGES ARISING OUT OF YOUR USE OF THE PVT. This report shall not be reproduced except in full and with the written approval of the laboratory.