



Phigenics
Validation Test®

PHIGENICS ANALYTICAL SERVICES LABORATORY
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CDC ELITE Certified

Facility Tested:
Date of Testing:
Contact Email:

Validation Criteria:
Potable Water - typically in well managed systems, the total viable heterotrophic aerobic bacterial concentration should be less than or equal to 10^3 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 10^4 CFU/mL. For closed recirculating utility water, the total viable heterotrophic aerobic bacterial concentration should be less than or equal to 10^3 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 culturable <i>Legionella</i> was detected.
THAB Caution		Indicates total heterotrophic aerobic bacteria count exceeds the validation criteria (10^3 for potable, 10^4 for utility, 10^3 for closed recirculating utility).
NO Concern	No Shading	Indicates results meet validation criteria.
	ND	Indicates <i>Legionella</i> was not detected.
	P	Indicates results are pending.

PASL Number	Date Inoculated	Date Analyzed	Collector	Location Identification	Category (Potable/Utility)	Next Day LegiPlex™ PCR	Total Bacteria	TimeZero™			Standard ISO			
								Lpn S1	Lpn S2-14	Legionella Spp CFU/mL	Lpn S1	Lpn S2-14	Legionella Spp	
10000	2018/01/01	2018/01/12	J. Smith	Sink #1 Hot	Potable	<i>L. pneumophila</i> sg 1	10^{-3}	70	ND	ND	62	<1	<1	<1
10001	2018/01/01	2018/01/12	J. Smith	Sink #2 Cold	Potable	Not Detected	10^{-5}	ND	ND	ND	<1	<1	<1	
10002	2018/01/01	2018/01/12	J. Smith	Sink #3 Hot	Potable	Not Detected	10^{-2}	ND	ND	ND	<1	<1	<1	
10003	2018/01/01	2018/01/12	J. Smith	Sink #4 Cold	Potable	Not Detected	<100	ND	ND	ND	<1	<1	<1	
10004	2018/01/01	2018/01/12	J. Smith	Shower #1 Hot	Potable	<i>L. pneumophila</i> sg 2-15	10^{-3}	ND	30	ND	<1	28	<1	
10005	2018/01/01	2018/01/12	J. Smith	Shower #2 Cold	Potable	Not Detected	10^{-2}	ND	ND	ND	<1	<1	<1	
10006	2018/01/01	2018/01/12	J. Smith	Shower #3 Hot	Potable	Not Detected	10^{-4}	ND	ND	ND	<1	<1	<1	
10007	2018/01/01	2018/01/12	J. Smith	Shower #4 Cold	Potable	<i>Legionella</i> genus	<100	ND	ND	ND	<1	<1	<1	
10008	2018/01/01	2018/01/12	J. Smith	Ice Machine #1	Potable	<i>Legionella</i> genus	<100	ND	ND	ND	<1	<1	<1	
10009	2018/01/01	2018/01/12	J. Smith	Ice Machine #2	Potable	Not Detected	<100	ND	ND	ND	<1	<1	<1	
10010	2018/01/01	2018/01/12	J. Smith	Drinking Fountain #1	Potable	Not Detected	<100	ND	ND	ND	<1	<1	<1	
10011	2018/01/01	2018/01/12	J. Smith	Drinking Fountain #2	Potable	<i>L. pneumophila</i> sg 1	10^{-2}	20	ND	ND	<1	<1	<1	
10012	2018/01/01	2018/01/12	J. Smith	Misting System	Potable	Not Detected	10^{-5}	ND	ND	ND	<1	<1	<1	
10013	2018/01/01	2018/01/12	J. Smith	Cooling Tower #1	Utility	<i>L. pneumophila</i> sg 2-15	10^{-4}	ND	50	ND	<10	10	<10	
10014	2018/01/01	2018/01/12	J. Smith	Cooling Tower #2	Utility	Not Detected	10^{-7}	ND	ND	ND	<10	<10	<10	
10015	2018/01/01	2018/01/12	J. Smith	Cooling Tower #3	Utility	<i>L. pneumophila</i> sg 1	10^{-5}	30	ND	ND	50	<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.