



**Phigenics  
Validation Test®**

PHIGENICS ANALYTICAL SERVICES LABORATORY

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**A CDC ELITE Certified Laboratory**

**Facility Tested: Test Site #1**

**Date of Testing: 2013/01/01**

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**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  $10^2$  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 (PVT with ISO) Report Summary

**Method Used: TimeZero Method and ISO 11731 Spread Plate Method**

<b>Legionella Caution</b>		Indicates <i>Legionella</i> was detected.
<b>THAB Caution</b>		Indicates total heterotrophic bacteria count exceeds the validation criteria ( $10^3$ for potable, $10^4$ for utility, $10^3$ for closed recirculating utility).
<b>NO Concern</b>	No Shading	Indicates results are better than the 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)	PVT (at t=0)			ISO 11731 Spread Plate			
						Total Bacteria	Lpn S1	Lpn S2-14	Legionella Spp	Lpn S1	Lpn S2-14	Legionella Spp
10000	2013/01/01	2013/01/11	J. Smith	Sink #1 Hot	Potable	$10^3$	70	ND	ND	62	<1	<1
10001	2013/01/01	2013/01/11	J. Smith	Sink #2 Cold	Potable	$10^5$	ND	ND	ND	<1	<1	<1
10002	2013/01/01	2013/01/11	J. Smith	Sink #3 Hot	Potable	$10^2$	ND	ND	ND	<1	<1	<1
10003	2013/01/01	2013/01/11	J. Smith	Sink #4 Cold	Potable	<100	ND	ND	ND	<1	<1	<1
10004	2013/01/01	2013/01/11	J. Smith	Shower #1 Hot	Potable	$10^3$	30	ND	ND	28	<1	<1
10005	2013/01/01	2013/01/11	J. Smith	Shower #2 Cold	Potable	$10^2$	ND	ND	ND	<1	<1	<1
10006	2013/01/01	2013/01/11	J. Smith	Shower #3 Hot	Potable	$10^4$	ND	ND	ND	<1	<1	<1
10007	2013/01/01	2013/01/11	J. Smith	Shower #4 Cold	Potable	<100	ND	ND	ND	<1	<1	<1
10008	2013/01/01	2013/01/11	J. Smith	Ice Machine #1	Potable	<100	ND	ND	ND	<1	<1	<1
10009	2013/01/01	2013/01/11	J. Smith	Ice Machine #2	Potable	<100	ND	ND	ND	<1	<1	<1
10010	2013/01/01	2013/01/11	J. Smith	Drinking Fountain #1	Potable	<100	ND	ND	ND	<1	<1	<1
10011	2013/01/01	2013/01/11	J. Smith	Drinking Fountain #2	Potable	$10^2$	20	ND	ND	<1	<1	<1
10012	2013/01/01	2013/01/11	J. Smith	Misting System	Potable	$10^6$	ND	ND	ND	<1	<1	<1
10013	2013/01/01	2013/01/11	J. Smith	Cooling Tower #1	Utility	$10^4$	50	ND	ND	10	<10	<10
10014	2013/01/01	2013/01/11	J. Smith	Cooling Tower #2	Utility	$10^7$	ND	ND	ND	<10	<10	<10
10015	2013/01/01	2013/01/11	J. Smith	Cooling Tower #3	Utility	$10^5$	30	ND	ND	50	<10	<10
10016	2013/01/01	2013/01/11	J. Smith	Evaporative Cooler #4	Utility	$10^4$	60	ND	ND	70	<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 plans. 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.