
Aerobiology Sample Report
1234 Mold Ave.
Spores, Conidiophores 12345
Attn: Fifth Kingdom
Project: **Legionella Sample Report**
Condition of Sample(s) Upon Receipt: Acceptable

Date Collected: 02/16/2015
Date Received: 02/18/2015
Date Analyzed: 03/02/2015
Date Reported: 03/02/2015
Project ID: 15000000
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Client Sample #: 1
Sample Location: Laundry Hot Water (Sink)
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-001

Liquid Volume: **200 (mL)**

Client Sample #: 2
Sample Location: Hot Water Return Boiler Room
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-002

Liquid Volume: **200 (mL)**

Client Sample #: 3
Sample Location: Cold Water Supply Pump Room
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-003

Liquid Volume: **200 (mL)**

Client Sample #: 4
Sample Location: Rm 219 Hot Water
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-004

Liquid Volume: **200 (mL)**

Client Sample #: 5
Sample Location: Rm 219 Cold Water
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-005

Liquid Volume: **200 (mL)**

Client Sample #: 6
Sample Location: 2nd Floor ICE Machine
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-006

Liquid Volume: **200 (mL)**

Client Sample #: 7
Sample Location: 2nd Floor South Hot Water
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-007

Liquid Volume: **200 (mL)**

Client Sample #: 8
Sample Location: 2nd Floor Shower North Hot Water
Test: 1015, Water Legionella Analysis, CDC Method
Results: **Negative for Legionella at 10 days**

Lab Sample #: 15000000-008

Liquid Volume: **200 (mL)**

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Legionella Facts

1. TESTING METHODOLOGY: Culture remains the recommended method for Legionella monitoring. Standardized culture procedures include ISO 11731: *Detection and Enumeration of Legionella* and CDC: *Procedures for the Recovery of Legionella from the Environment*.

Ref: BSR / ASHRE Standard 188P

2. *Legionella* species recovered from culture method include *Legionella pneumophila* and *Legionella* species not pneumophila. All *Legionella pneumophila* isolates are run against Serogroup 1 reagent. *Legionella* species not pneumophila isolates are screened in *Legionella* serogroup / species reagent. (This serogroup reagent includes *micdadei*, *bozemanii*, *dumoffi*, *longbeachae*, *jordanis*, *gormanii*, *anisa* and *feeleyi*)

Action Criteria for Legionella

<i>Legionella</i> / ml	Cooling Towers and Evaporative Condensers	Suggested Remedial Action: Potable Water	Humidifier/Fogger
Detectable, but <1	1	2	3
1 - 9	2	3	4
10 - 99	3	4	5
100 - 999	4	5	5
≥ 1,000	5	5	5

Remedial Actions:

Level 1:

Review routine maintenance program recommended by the manufacturer of the equipment to ensure that the recommended program is being followed. The presence of barely detectable number of Legionella represents a low level of concern.

Level 2:

Implement action 1. Conduct follow-up analysis after a few weeks for evidence of further Legionella amplification. This level of *Legionella* represents little concern, but the number of organisms detected indicates that the system is a potential amplifier of *Legionella*.

Level 3:

Implement action 2. Conduct review of premises for the direct and indirect bioaerosols contact with occupants and health risk status of people who may come in contact with bioaerosols. Depending on the results of the review of the premises, action related to cleaning and/or biocide treatment of the equipment may be indicated. This level of *Legionella* represents a low but increased level of concern.

Level 4:

Implement action 3. Cleaning and/or biocide treatment of the equipment is indicated. This level of *Legionella* represents a moderately high level of concern, since it is approaching levels that may cause outbreaks. It is uncommon for samples to contain number of *Legionella* that fall in this category.

Level 5:

Immediate cleaning and/or biocide treatment of the equipment is definitely indicated. Conduct post treatment analysis to ensure effectiveness of the corrective action. The level of *Legionella* represents a high level of concern, since it poses the potential for causing an outbreak. It is very uncommon for samples to contain number of *Legionella* that fall in this category.

Ref: *Legionella*: Current Status and Emerging Perspectives: barbaree, Breiman, Dufour: ASM



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