

Premier's "Patent Pending" Disposable Filters Eliminates Bacillus Cereus, a Common Cause of Food-Borne illness

The EMSL Method M009, consists of swabbing, culturing and counting the 5 most prominent types of bacteria found. **The first swab (5/24/2017) found a total count of 103,600,000 CFUs**, on the walls and the back of the evaporator, of 6 different bacteria species:

1. Bacillus marisflavi,
2. Bacillus pumilus/safensis,
3. Paenibacillus sp,
4. Bacillus cereus/ thuringiensis,
5. Elizabethkingia sp,
6. Empedobacter sp.

Bacillus cereus was the greatest concern. It is a Gram-positive, spore-forming microorganism capable of causing foodborne disease, that comes from the intestines of insects.

The second swab (8/11/2017) found only 5,650,000 CFUs, which represented a 94.5% decrease.

Following is the list of the 5 bacteria cultured:

1. Staphylococcus epidemidis,
2. Bacillus marisflavi,
3. Bacillus pumilus/safensis,
4. Bacillus sp,
5. Micrococcus yunnanensis.

Bacillus cereus was no longer detected. Nothing else was done to the commercial cooler between 5/24 to 8/11 (including cleaning). Bacillus sp only had 54% of the markers for Bacillus Cereus.



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EMSL Order: 341704606
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CustomerPO:
ProjectID:

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Lutz, FL 33558

Phone: (813) 852-1527
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Received: 05/24/17 11:00 AM
Analysis Date: 6/6/2017
Collected: 5/22/2017

Project: **Prep Cooler #001**

Test Report: Identification and Enumeration of Culturable Bacteria by Swab (Five Most Prominent Types (EMSL Method M009))

Sample Description	Location	Media	Temp (C)	Sample Measure (Swab)	Analytical Sensitivity (CFU/Swab)	Dilution	Bacteria Identification	Colony Count	CFUs (CFU/Swab)
Sample 1	Prep Cooler- Walls	TSAB	35	1	100,000	100000	<i>Bacillus marisflavi</i>	43	4,300,000
					100,000	100000	<i>Bacillus pumilis/safensis</i>	4	400,000
					100,000	100000	<i>Paenibacillus sp.</i>	4	400,000
					Total		51	5,100,000	
341704606-0001									
Sample 2	Prep Cooler- EVAP	TSAB	35	1	10,000	10000	<i>Bacillus cereus/thuringiensis</i>	6	60,000
					100,000	100000	<i>Elizabethkingia sp.</i>	577	57,700,000
					100,000	100000	<i>Empedobacter sp.</i>	407	40,700,000
Total		990	98,500,000						
341704606-0002									

No discernable blank was submitted with this group of samples

Analyst(s)

Lauren Hammers (2)

Yessica Martinez Seeman, Microbiology Technical Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL

Report Amended: 08/25/2017 14:31:21 Replaces the Inital Report 06/07/2017 09:56:40. Reason Code: Data Entry-Change to Sample ID

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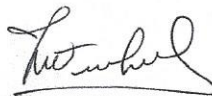
Phone: (813) 852-1527
 Fax:
 Received: 08/11/17 10:45 AM
 Analysis Date: 8/22/2017
 Collected: 8/9/2017

Test Report: Identification and Enumeration of Culturable Bacteria by Swab (Five Most Prominent Types (EMSL Method M009))

Sample Description	Location	Media	Temp (C)	Sample Measure (Swab)	Analytical Sensitivity (CFU/Swab)	Dilution	Bacteria Identification	Colony Count	CFUs (CFU/Swab)
Sample 1	Prep Cooler Walls	TSAB	35	1	10,000	10000	<i>Staphylococcus epidermidis</i>	27	270,000
Total								27	270,000
341707152-0001									
Sample 2	Prep Cooler -EVAP	TSAB	35	1	10,000	10000	<i>Bacillus marisflavi</i>	43	430,000
					10,000	10000	<i>Bacillus pumilus/safensis</i>	185	1,850,000
					10,000	10000	<i>Bacillus sp.</i>	6	60,000
					10,000	10000	<i>Micrococcus yunnanensis</i>	35	350,000
Total								269	2,690,000
341707152-0002									

No discernable blank was submitted with this group of samples

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL

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