

# *Prestige EnviroMicrobiology, Inc*

## Analytical Test Report

Client: Proac Corp. 8401 South Lancaster Ave, Bethel, PA 19507

Client Project: SESD East Middle School

Sample date: 9-26-2012

Submittal date: 9-27-2012

Date samples received: 9-28-2012

Date of inoculation: 9-28-2012 (Swabs)

Samples submitted by: Walt Saunders

Date analysis completed: October 5, 2012

Prestige Report number: 120928-01

### Culture Method (P027): Culture Analysis of Swab Samples for Fungi and Bacteria

Prestige # Client sample ID Location	Area (in <sup>2</sup> )	Medium used	Dilution factor	Fungal/Bacterial Identification	Colony counts	Conc. (CFU/in <sup>2</sup> )	Percentage
120928-01-070 70 Rm 126	2	MEA	100x	<i>Aspergillus niger</i>	1	50	5%
				<i>Cladosporium</i> spp.	6	300	30%
				<i>Epicoccum nigrum</i>	4	200	20%
				<i>Trichoderma harzianum</i>	6	300	30%
				yeasts	3	150	15%
						Total 1,000	
		TSA	10,000x	Bacteria, overloaded	>500	>2,500,00	NA
				<i>Flavobacterium</i> spp.			
				gram (-) bacteria			
				<i>Pseudomonas</i> spp.			
						Total >2,500,000	
120928-01-071 71 Rm 124	2	MEA	100x	<i>Aureobasidium pullulans</i>	4	200	2%
				<i>Cladosporium</i> sp.	1	50	1%
				<i>Epicoccum nigrum</i>	1	50	1%
				<i>Fusarium graminearum</i>	1	50	1%
				<i>Fusarium solani</i>	1	50	1%
				<i>Pithomyces chartarum</i>	1	50	1%
				<i>Rhodotorula glutinis</i>	2	100	1%
				yeasts	184	9,200	94%
						Total 9,800	
		TSA	10,000x	Bacteria, overloaded	>500	>2,500,000	NA
				gram (-) bacteria			
				<i>Pseudomonas</i> spp.			
						Total >2,500,000	

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120928-01-072 72 Cafeteria	2	MEA	1,000x	<i>Cladosporium</i> spp. <i>Fusarium sporotrichioides</i>	2 28	1,000 14,000 Total 15,000	7% 93%
		TSA	10,000x	Bacteria, overloaded <i>Flavobacterium</i> spp. gram (-) bacteria	>500	>2,500,000 Total >2,500,000	NA
120928-01-073 73 Weight Rm	2	MEA	100x	<i>Fusarium sporotrichioides</i> <i>Penicillium</i> sp. yeasts	1 1 11	50 50 550 Total 650	8% 8% 85%
		TSA	10,000x	<i>Flavobacterium</i> spp. gram (-) bacteria gram (+) bacteria <i>Pseudomonas</i> spp.	38 135 43 16	190,000 680,000 220,000 80,000 Total 1,200,000	16% 58% 19% 7%
120928-01-074 74 Wrestle Rm	2	MEA	100x	<i>Alternaria alternata</i> <i>Epicoccum nigrum</i> yeasts	1 1 1	50 50 50 Total 150	33% 33% 33%
		TSA	10,000x	Bacteria, overloaded <i>Flavobacterium</i> spp. gram (-) bacteria gram (+) bacteria <i>Pseudomonas</i> spp. <i>Staphylococcus</i> spp.	>500	>2,500,000 Total >2,500,000	NA
120928-01-075 75 Boys Team Rm	2	MEA	1,000x	<i>Acremonium</i> spp. <i>Epicoccum nigrum</i> <i>Rhodotorula glutinis</i> yeasts	3 1 5 9	1,500 500 2,500 4,500 Total 9,000	17% 6% 28% 50%
		TSA	10,000x	Bacteria, overloaded <i>Flavobacterium</i> spp. gram (-) bacteria gram (+) bacteria <i>Pseudomonas</i> spp.	>500	>2,500,000 Total >2,500,000	NA

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120928-01-076 76 Boys Locker Rm	2	MEA	100x	<i>Acremonium</i> sp.	1	50	4%
				<i>Cladosporium</i> sp.	1	50	4%
				<i>Curvularia lunata</i>	1	50	4%
				<i>Fusarium solani</i>	1	50	4%
				<i>Fusarium sporotrichioides</i>	1	50	4%
				<i>Fusarium</i> sp.	2	100	7%
				<i>Pithomyces chartarum</i>	2	100	7%
				<i>Rhodotorula glutinis</i>	3	150	11%
				yeasts	15	750	56%
						Total 1,400	
		TSA	10,000x	Bacteria, overloaded	>500	>2,500,000	
				<i>Flavobacterium</i> spp.			
				gram (-) bacteria			
				gram (+) bacteria			
				<i>Pseudomonas</i> spp.			NA
						Total >2,500,000	
120928-01-077 77 Library Office	2	MEA	100x	<i>Rhodotorula glutinis</i>	37	1,900	100%
						Total 1,900	
		TSA	1,000x	gram (-) bacteria	31	16,000	13%
				<i>Methylobacterium</i> spp.	3	1,500	1%
				<i>Pseudomonas</i> spp.	228	110,000	86%
						Total 130,000	
120928-01-078 78 Girls Locker Rm	2	MEA	100x	<i>Curvularia lunata</i>	1	50	17%
				yeasts	5	250	83%
						Total 300	
		TSA	1,000x	<i>Flavobacterium</i> spp.	310	160,000	100%
				gram (+) bacteria	1	500	<1%
						Total 160,000	
120928-01-079 79 Girls Team Rm	2	MEA	100x	<i>Alternaria alternata</i>	1	50	1%
				<i>Curvularia lunata</i>	2	100	3%
				<i>Exophiala</i> spp.	4	200	6%
				<i>Fusarium sporotrichioides</i>	2	100	3%
				<i>Pithomyces chartarum</i>	14	700	21%
				<i>Rhodotorula glutinis</i>	22	1,100	32%
				yeasts	23	1,200	34%
						Total 3,500	
		TSA	10,000x	<i>Bacillus</i> spp.	5	25,000	13%
				gram (-) bacteria	28	140,000	70%
				gram (+) bacteria	6	30,000	15%
				<i>Methylobacterium</i> sp.	1	5,000	3%
						Total 200,000	
120928-01-080 80 Library	2	MEA	100x	<i>Alternaria alternata</i>	1	50	10%
				<i>Epicoccum nigrum</i>	1	50	10%
				<i>Rhodotorula glutinis</i>	6	300	60%
				yeasts	2	100	20%
						Total 500	
		TSA	100x	<i>Bacillus</i> spp.	6	300	86%
				<i>Micrococcus luteus</i>	1	50	14%
						Total 350	

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120928-01-081 81 Rm 135	2	MEA	100x	<i>Fusarium sporotrichioides</i>	1	50	100%
		TSA	100x	<i>Flavobacterium</i> spp. gram (-) bacteria <i>Pseudomonas</i> spp.	4 5 3	200 250 150	33% 42% 25%
						Total 50	
						Total 600	
120928-01-082 82 Rm 137	2	MEA	100x	<i>Trichoderma harzianum</i>	6	300	100%
		TSA	100x	<i>Flavobacterium</i> spp. gram (-) bacteria	1 2	50 100	33% 67%
						Total 300	
						Total 150	
120928-01-083 83 Rm 222	2	MEA	100x	No fungal growth observed	ND	<50	NA
		TSA	100x	<i>Flavobacterium</i> spp. gram (-) bacteria gram (+) bacteria <i>Pseudomonas</i> spp.	16 8 4 2	800 400 200 100	53% 27% 13% 7%
						Total <50	
						Total 1,500	
120928-01-084 84 Rm 224	2	MEA	100x	<i>Aureobasidium pullulans</i> <i>Epicoccum nigrum</i> <i>Rhodotorula glutinis</i>	2 1 15	100 50 750	11% 6% 83%
		TSA	10,000x	<i>Bacillus</i> spp. <i>Flavobacterium</i> spp. gram (-) bacteria gram (+) bacteria <i>Methylobacterium</i> spp.	2 8 33 6 2	10,000 40,000 170,000 30,000 10,000	4% 15% 65% 12% 4%
						Total 900	
						Total 260,000	
120928-01-085 85 Gym 1	2	MEA	100x	<i>Aureobasidium pullulans</i> <i>Cladosporium</i> sp. <i>Epicoccum nigrum</i> <i>Geotrichum candidum</i> <i>Pithomyces chartarum</i> <i>Rhodotorula glutinis</i> yeasts	1 1 3 5 2 30 64	50 50 150 250 100 1,500 3,200	1% 1% 3% 5% 2% 28% 60%
		TSA	10,000x	<i>Bacillus</i> spp. gram (-) bacteria	42 6	210,000 30,000	88% 13%
						Total 5,300	
						Total 240,000	
120928-01-086 86 Gym 2	2	MEA	10,000x	<i>Rhodotorula glutinis</i> yeasts	18 4	90,000 20,000	82% 18%
		TSA	10,000x	Bacteria, overloaded <i>Bacillus</i> spp. gram (-) bacteria <i>Pseudomonas</i> spp.	>500	>2,500,00	NA
						Total 110,000	
						Total >2,500,000	

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120928-01-087 87 Gym RTU	2	MEA	100x	<i>Acrodontium intermissum</i>	2	100	10%
				<i>Cladosporium</i> sp.	1	50	5%
				<i>Phoma</i> sp.	1	50	5%
				yeasts	16	800	80%
						Total 1,000	
		TSA	1,000x	<i>Flavobacterium</i> spp.	42	21,000	98%
				<i>Micrococcus roseus</i>	1	500	2%
						Total 22,000	
120928-01-088 88 Weight Rm Unit	1	MEA	100x	No fungal growth observed	ND	<100	NA
						Total <100	
		TSA	100x	No bacterial growth observed	ND	<100	NA
						Total <100	
120928-01-089 89 Library Office	1	MEA	100x	<i>Rhodotorula glutinis</i>	26	2,600	87%
				yeasts	4	400	13%
						Total 3,000	
		TSA	100x	<i>Bacillus</i> sp.	1	100	17%
				<i>Methylobacterium</i> spp.	5	500	83%
						Total 600	
120928-01-090 90 Library Scanner	1	MEA	100x	<i>Alternaria alternata</i>	6	600	11%
				<i>Aspergillus flavus</i>	1	100	2%
				<i>Cladosporium</i> spp.	8	800	15%
				<i>Epicoccum nigrum</i>	2	200	4%
				<i>Fusarium graminearum</i>	2	200	4%
				<i>Rhodotorula glutinis</i>	4	400	7%
				yeasts	31	3,100	57%
						Total 5,400	
		TSA	100x	<i>Bacillus</i> spp.	3	300	30%
				gram (-) bacteria	7	700	70%
						Total 1,000	
120928-01-091 91 Girls Locker Rm	1	MEA	100x	No fungal growth observed	ND	<100	NA
						Total <100	
		TSA	100x	<i>Bacillus</i> spp.	2	200	100%
						Total 200	
120928-01-092 92 Rm 222 Storage	1	MEA	1,000x	<i>Aureobasidium pullulans</i>	2	2,000	4%
				<i>Epicoccum nigrum</i>	3	3,000	7%
				<i>Pithomyces chartarum</i>	1	1,000	2%
				<i>Rhodotorula glutinis</i>	30	30,000	67%
				yeasts	9	9,000	20%
						Total 45,000	
		TSA	100x	<i>Flavobacterium</i> spp.	42	4,200	74%
				<i>Methylobacterium</i>	15	1,500	26%
						Total 5,700	

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120928-01-093 93 Rm 224	1	MEA	1,000x	<i>Cladosporium</i> spp.	182	180,000	98%		
				yeasts	2	2,000	1%		
				sterile fungi	1	1,000	1%		
						Total 180,000			
		TSA	1,000x	<i>Bacillus</i> spp.	23	23,000	79%		
				gram (-) bacteria	3	3,000	10%		
				gram (+) bacteria	1	1,000	3%		
				<i>Staphylococcus</i> spp.	2	2,000	7%		
						Total 29,000			
120928-01-094 94 Rm 216 UV	1	MEA	100x	<i>Cladosporium</i> sp.	1	100	50%		
				<i>Paecilomyces variotii</i>	1	100	50%		
						Total 200			
		TSA	100x	<i>Micrococcus luteus</i>	2	200	100%		
						Total 200			
120928-01-095 95 AHU #3 – office	1	MEA	10,000x	<i>Cladosporium</i> spp.	36	360,000	100%		
							Total 360,000		
		TSA	100x	<i>Bacillus</i> spp.	15	1,500	22%		
				gram (-) bacteria	54	5,400	78%		
						Total 6,900			
120928-01-096 96 Café Unit	2	MEA	1,000x	<i>Acrodontium intermissum</i>	5	2,500	22%		
				<i>Alternaria alternata</i>	1	500	4%		
				<i>Cladosporium</i> spp.	11	5,500	48%		
				<i>Epicoccum nigrum</i>	5	2,500	22%		
				sterile fungi	1	500	4%		
					Total 12,000				
		TSA	100x	<i>Bacillus</i> spp.	4	200	25%		
				gram (-) bacteria	12	600	75%		
						Total 800			
120928-01-097 97 Girls Training Rm Unit	1	MEA	1,000x	<i>Alternaria alternata</i>	2	2,000	3%		
				<i>Aureobasidium pullulans</i>	7	7,000	11%		
				<i>Epicoccum nigrum</i>	4	4,000	6%		
				<i>Fusarium solani</i>	1	1,000	2%		
				<i>Rhodotorula glutinis</i>	4	4,000	6%		
				yeasts	48	48,000	73%		
							Total 66,000		
						TSA	1,000x	<i>Bacillus</i> spp.	4
						gram (-) bacteria	18	18,000	72%
						gram (+) bacteria	2	2,000	8%
				<i>Staphylococcus</i> sp.	1	1,000	4%		
						Total 25,000			
120928-01-098 98 Rm 124 UV	2	MEA	100x	<i>Epicoccum nigrum</i>	1	50	100%		
							Total 50		
		TSA	100x	No bacterial growth observed	ND	<50	NA		
						Total <50			
120928-01-099 99 Boys Locker Rm	2	MEA	100x	No fungal growth observed	ND	<50	NA		
							Total <50		
		TSA	100x	<i>Micrococcus luteus</i>	1	50	100%		
						Total 50			

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120928-01-100 100 Boys Team Room	1	MEA	100x	<i>Alternaria alternata</i>	6	600	14%
				<i>Aspergillus flavus</i>	1	100	2%
				<i>Cladosporium</i> spp.	7	700	16%
				<i>Epicoccum nigrum</i>	22	2,200	50%
				<i>Penicillium</i> spp.	2	200	5%
				<i>Pithomyces chartarum</i>	6	600	14%
				Total		4,400	
		TSA	100x	<i>Bacillus</i> spp.	1	100	100%
				Total		100	
120928-01-101 101 Gym RTU #2	2	MEA	1,000x	<i>Aureobasidium pullulans</i>	2	1,000	4%
				<i>Rhodotorula glutinis</i>	3	1,500	5%
				yeasts	51	26,000	91%
				Total		29,000	
		TSA	100x	<i>Flavobacterium</i> spp.	4	200	6%
				gram (-) bacteria	2	100	3%
				gram (+) bacteria	6	300	9%
				<i>Methylobacterium</i> spp.	54	2,700	81%
				<i>Micrococcus luteus</i>	1	50	1%
				Total		3,400	
120928-01-102 102 Rm 126 UV	1	MEA	10,000x	<i>Pithomyces chartarum</i>	1	10,000	6%
				<i>Rhodotorula glutinis</i>	10	100,000	56%
				<i>Trichoderma harzianum</i>	3	30,000	17%
				yeasts	4	40,000	22%
				Total		180,000	
		TSA	1,000x	<i>Bacillus</i> spp.	3	3,000	9%
				<i>Flavobacterium</i> spp.	18	18,000	51%
				gram (-) bacteria	10	10,000	29%
				<i>Staphylococcus</i> spp.	4	4,000	11%
				Total		35,000	
120928-01-103 103 Rm 135	1	MEA	100x	yeasts	2	200	100%
				Total		200	
		TSA	100x	No bacterial growth observed	ND	<100	NA
				Total		<100	

Report approved: Theresa Lehman  
Theresa Lehman, MPH, Lab Director

Quality control check: Chin S Yang  
Chin S Yang, Ph.D.

Report review: Theresa Lehman

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1. The samples in this report were received in good, acceptable conditions. Results relate only to the items tested.
2. Percentage is for each group in total population.
3. Concentrations and percentages are rounded to the nearest two significant digits. Total percentage may not add up to 100% due to rounding.
4. MEA = 2% malt extract agar. TSA = tryptic soy agar. ND = not detected. NA = not applicable.
5. All culture samples are incubated at  $25 \pm 0.5^{\circ}\text{C}$  unless otherwise indicated.
6. The detection limit of this analysis is one fungal/bacterial colony. The quantitation limits vary from analysis to analysis and by air volume. Contact us to determine your quantitation limits.