



Supplement of

Evaluating the potential for Haloarchaea to serve as ice nucleating particles

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Table S1. Results for Fisher’s exact test for intercomparisons of treatment data for *H. morrhuae* and *H. sulfurifontis* (i.e., data from Figures 2 and 3 in the manuscript). Data are binned and averaged for 0.5 °C increments. The p value is two-tailed and level of statistical significance in for the heat and peroxide treated spectra and provided compared to the unamended data. Significant, very significant, and extremely significant comparisons are noted by *, **, and *, respectively. Those which are not significant are left blank.**

Haloarchaeal species	Dilution factor	Freezing temperature	Unamended fraction frozen	Heat treated			Peroxide treated		
				Fraction frozen	p value	Statistical significance	Fraction frozen	p value	Statistical significance
<i>Halococcus morrhuae</i>	1:6	-18.5	0.04	0.00	1.0000		0.00	1.0000	
		-19.0	0.23	0.00	0.0219	*	0.00	0.0219	*
		-19.5	0.29	0.13	0.2865		0.00	0.0094	**
		-20.0	0.79	0.46	0.0355	*	0.10	0.0001	***
		-20.5	1.00	0.81	0.1092		0.23	0.0496	*
	1:15	-17.5	0.08	0.04	1.0000		0.00	0.4894	
		-18.0	0.08	0.04	1.0000		0.00	0.4894	
		-18.5	0.08	0.04	1.0000		0.00	0.4894	
		-19.0	0.31	0.17	0.3177		0.00	0.0039	**
		-19.5	0.75	0.29	0.0034	**	0.00	0.0001	***
		-20.0	0.98	0.71	0.0479	*	0.08	0.0001	***
	1:30	-20.5	1.00	1.00	1.0000		0.08	0.0001	***
		-18.5	0.04	0.00	1.0000		0.00	1.0000	
		-19.0	0.08	0.00	0.4894		0.00	0.4894	
		-19.5	0.29	0.08	0.1365		0.00	0.0094	**
		-20.0	0.69	0.19	0.0012	**	0.04	0.0001	***
		-20.5	0.94	0.50	0.0007	***	0.13	0.0001	***
	<i>Haloferax sulfurifontis</i>	1:15	-21.0	1.00	0.92	0.4894		0.13	0.0001
-19.0			0.04	0.00	1.0000		0.08	1.0000	
-19.5			0.04	0.00	1.0000		0.13	0.6085	
-20.0			0.04	0.00	1.0000		0.13	0.6085	
		-20.5	0.23	0.00	0.0496	*	0.13	0.7008	

-21.0	0.38	0.00	0.0016	**	0.17	0.1930	
-21.5	0.42	0.04	0.0044	**	0.17	0.1107	
-22.0	0.48	0.04	0.0018	**	0.21	0.1246	
-22.5	0.75	0.08	0.0001	***	0.21	0.0004	***
-23.0	0.81	0.13	0.0001	***	0.25	0.0001	***
-23.5	0.88	0.13	0.0001	***	0.29	0.0001	***
-24.0	0.88	0.13	0.0001	***	0.33	0.0003	***
-24.5	0.88	0.17	0.0001	***	0.38	0.0008	***
-25.0	0.92	0.31	0.0001	***	0.54	0.0078	**
-25.5	0.92	0.44	0.0130	**	0.79	0.4158	
-26.0	0.96	0.63	0.0102	*	0.92	1.0000	
-26.5	1.00	0.79	0.0496	*	1.00	1.0000	
