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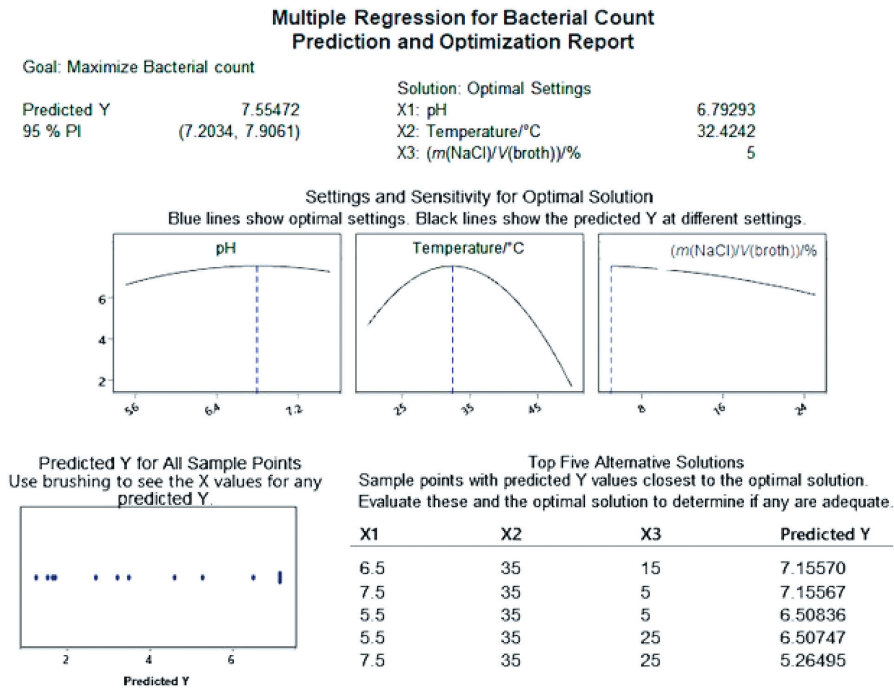


Fig. S1. Optimization response of multiple regression for maximum bacterial count

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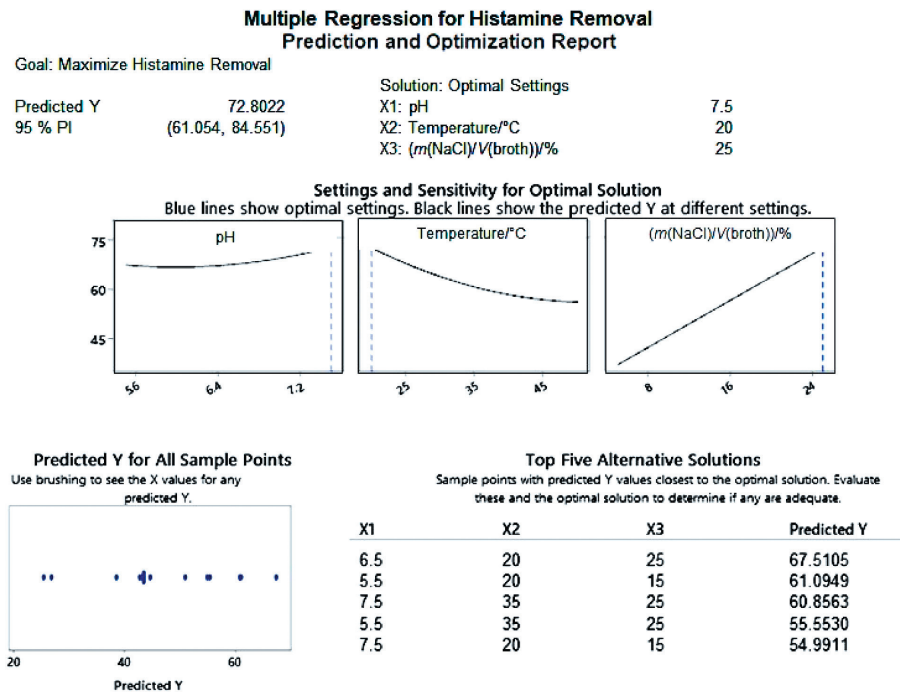


Fig. S2. Optimization response of multiple regression for maximum histamine removal

[Back to article](#)**Table S1.** Analysis of variance: bacterial count *versus* pH of the medium, NaCl amount and incubation temperature

Source	DF	Adj SS	Adj MS	F-value	p-value
Regression	7	930.22	132.888	24.95	0.000
pH	1	85.54	85.538	16.06	0.000*
Temperature/°C	1	1.11	1.108	0.21	0.651
(m(NaCl)/V(broth))/%	1	2.67	2.666	0.50	0.484
pH×temperature/°C	1	5.42	5.421	1.02	0.319
pH×(m(NaCl)/V(broth))/%	1	4.03	4.032	0.76	0.390
Temperature/°C×(m(NaCl)/V(broth))/%	1	0.77	0.768	0.14	0.706
pH×temperature/°C×(m(NaCl)/V(broth))/%	1	1.25	1.254	0.24	0.630
Error	38	202.37	5.326		
Total	45	1132.59			

*Significant factor of *N*(viable cells)/log CFU at 95 % confidence level (*N*=3)[Back to article](#)**Table S2.** Analysis of variance: predicted histamine *versus* pH of the medium, NaCl amount and incubation temperature

Source	DF	Adj SS	Adj MS	F-value	p-value
Regression	7	104447	14921.1	494.57	0.000
pH	1	3548	3548.2	117.61	0.000*
Temperature/°C	1	1554	1553.7	51.50	0.000*
(m(NaCl)/V(broth))/%	1	110	110.2	3.65	0.064
pH×temperature/°C	1	2032	2031.6	67.34	0.000*
pH×(m(NaCl)/V(broth))/%	1	58	57.8	1.92	0.174
Temperature/°C×(m(NaCl)/V(broth))/%	1	258	258.0	8.55	0.006*
pH×temperature/°C×(m(NaCl)/V(broth))/%	1	262	261.7	8.67	0.005*
Error	38	1146	30.2		
Total	45	105594			

*Significant factor of the percentage of histamine removal at 95 % confidence level (*N*=3)[Back to article](#)**Table S3.** Analysis of variance: concentration of removed histamine *versus* pH of the medium, NaCl amount and incubation temperature

Source	DF	Adj SS	Adj MS	F-value	p-value
Regression	6	104390	17398.3	563.46	0.000
pH	1	3508	3507.6	113.60	0.000*
Temperature/°C	1	1503	1502.7	48.67	0.000*
(m(NaCl)/V(broth))/%	1	284	284.3	9.21	0.004*
pH×temperature/°C	1	1974	1974.2	63.93	0.000*
Temperature/°C×(m(NaCl)/V(broth))/%	1	399	398.8	12.91	0.001*
pH×temperature/°C×(m(NaCl)/V(broth))/%	1	456	456.2	14.77	0.000*
Error	39	1204	30.9		
Lack-of-fit	7	385	55.0	2.15	0.067
Pure error	32	819	25.6		
Total	45	105594			

*Significant factor of the percentage of histamine removal at 95 % confidential level (*N*=3)