

Supplemental Table S4. Analysis of variance (ANOVA) for the response surface regression model to GABA content

Source	Sum of Squares	df	Mean Square	<i>F</i> value	<i>p</i> value	
Model	63.28	9	7.03	9.08	0.0071	significant
A	5.17	1	5.17	6.67	0.0416	
B	4.09	1	4.09	5.28	0.0613	
C	9.27	1	9.27	11.96	0.0135	
AB	5.50	1	5.50	7.10	0.0373	
AC	0.9409	1	0.9409	1.21	0.3126	
BC	1.07	1	1.07	1.38	0.2841	
A ²	35.64	1	35.64	46.02	0.0005	
B ²	1.60	1	1.60	2.07	0.2006	
C ²	0.0000	1	0.0000	0.0000	1.0000	
Residual	4.65	6	0.7745			
Lack of fit	3.89	3	1.30	5.10	0.1070	not significant
Pure Error	0.7622	3	0.2541			
Cor Total	67.92	15				

It can be seen in Table S4 that *F* value of the model is 9.08 and the *p* value was 0.0071 (< 0.01), indicating high significance of the model. The *F* value and *p* value of the missing fitting term were 5.10 and 0.1070 respectively (> 0.1), indicating that the model had good fitting results.