Table 3 Response surface method variance analysis

Source	Sum of squares	df	Mean aquares	F value	p value	Significance
Model	0.15	5	0.030	42.89	<0.000 1	***
A-A	0.012	1	0.012	17.75	0.004 0	**
B-B	0.010	1	0.010	14.77	0.006 3	**
AB	0.020	1	0.020	28.72	0.001 1	**
A^2	0.086	1	0.086	122.73	< 0.000 1	***
B^2	0.033	1	0.033	47.90	0.000 2	***
Residual	4.89	7	6.99			
Lack of fit	3.00	3	1.00	2.12	0.240 4	not significant
Pure error	1.89	4	4.72			
The total deviation	0.15	12				
r^2				0.968 4		
R_{Adj}^2				0.945 8		