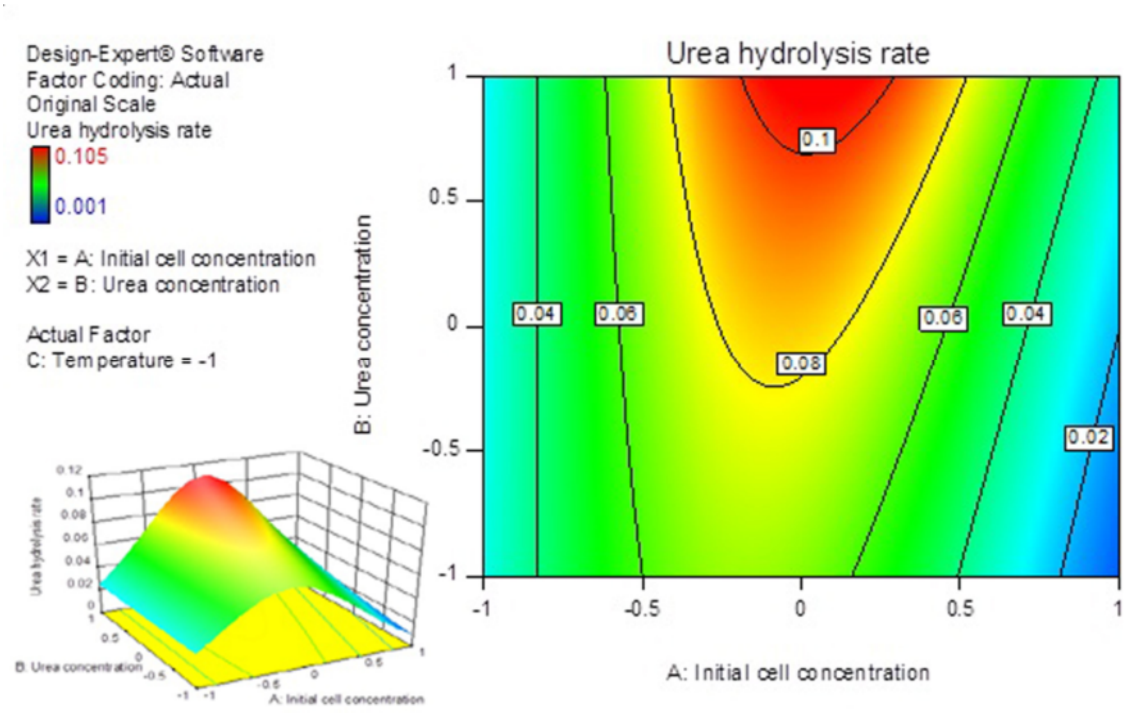
Table S1

Summary of ANOVA for the urea hydrolysis rate model fit

Source	Mean Square	F-value	P-value, Prob.>F
Model	33.00	2272.78	< 0.0001
Lack of Fit	*0.011*	*0.53*	*0.7075*
R^2		0.9997	
Adj. R^2		0.9992	
Pred. R^2		0.9927	
C.V. %		1.06	
Pred. Equ.	$1/(r_U+0.04) = 8.26 - 2.90*A - 1.62*B + 0.51*C - 1.51*AB - 3.71*AC - 0.38*BC + 6.79*A^2$		



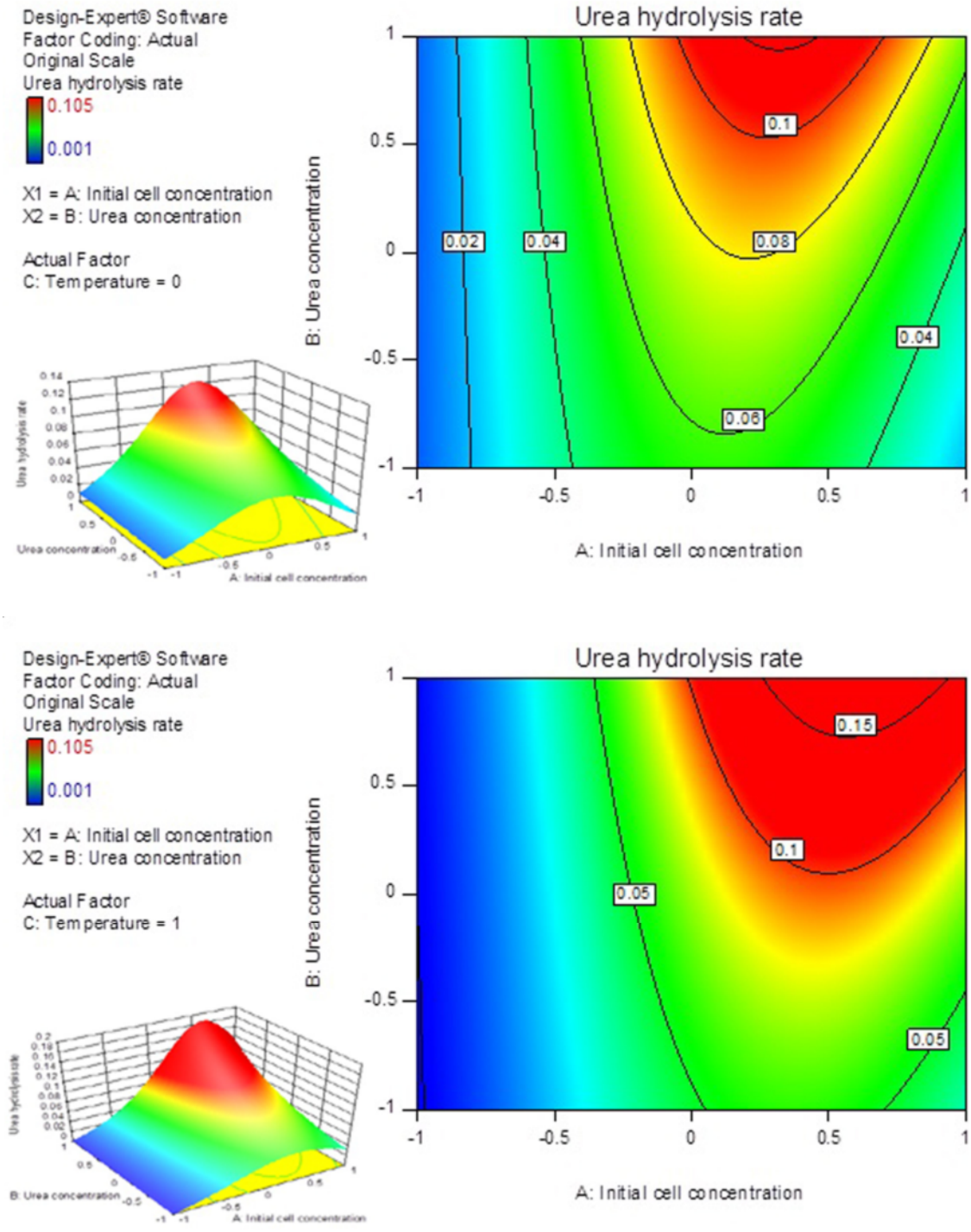
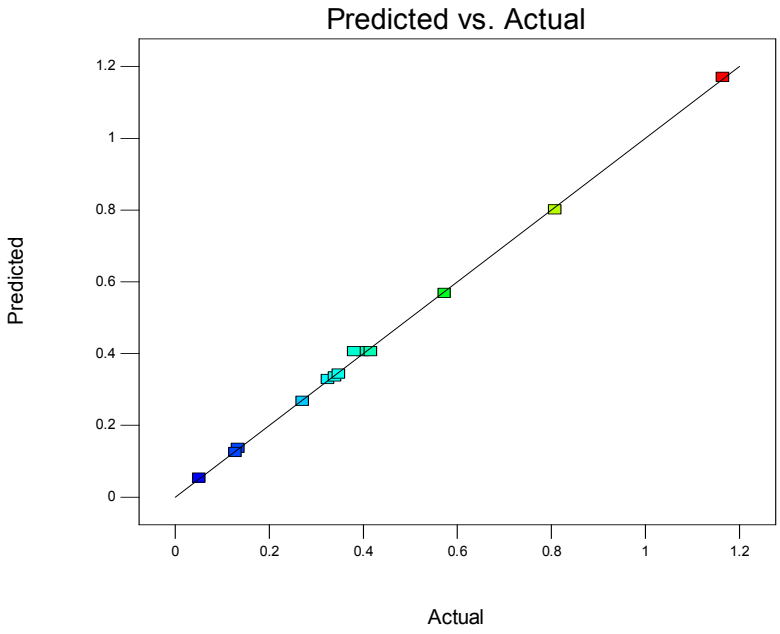


Fig. S1. Response surface plots of the mutual effect of the factors on the urea hydrolysis rate

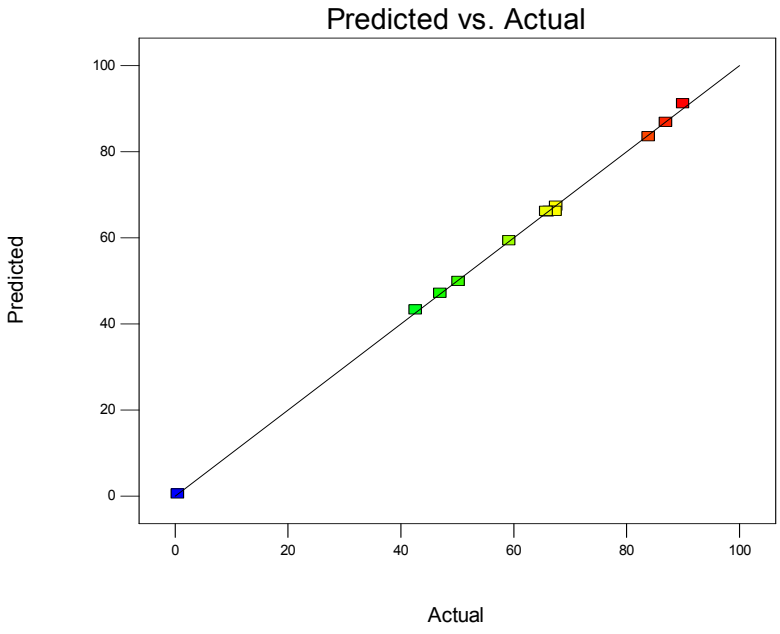
Design-Expert® Software
Bacterial gowth

Color points by value of
Bacterial gowth:
1.165
0.051



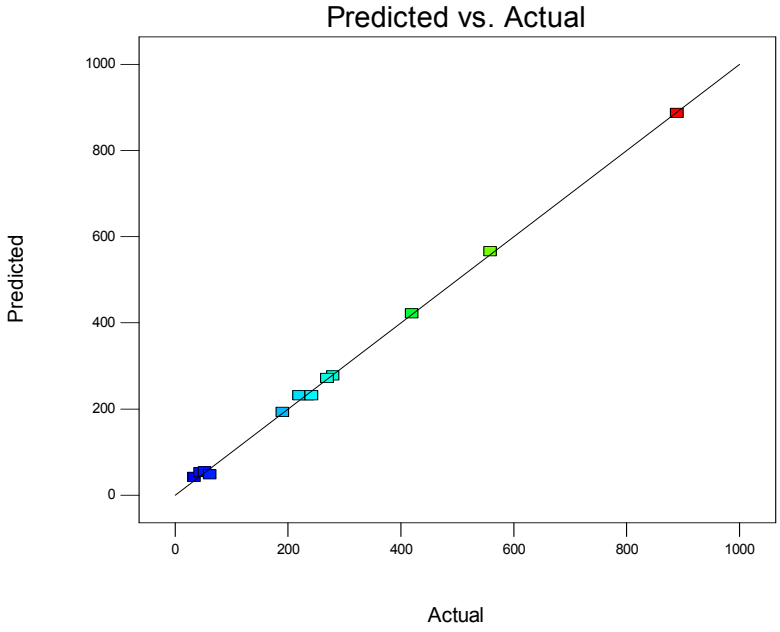
Design-Expert® Software
Urea hydrolysis potential

Color points by value of
Urea hydrolysis potential:
90
0.5



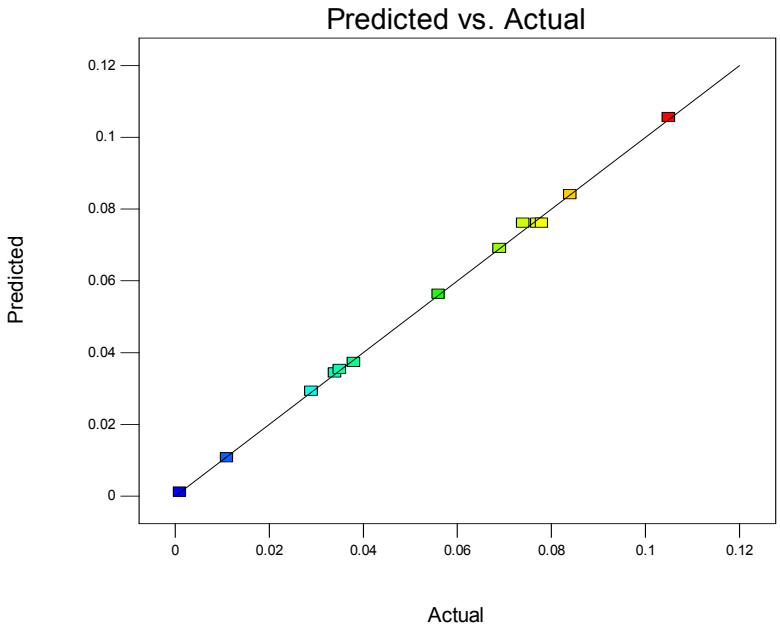
Design-Expert® Software
Lag duration

Color points by value of
Lag duration:
890
34



Design-Expert® Software
Urea hydrolysis rate

Color points by value of
Urea hydrolysis rate:
0.105
0.001



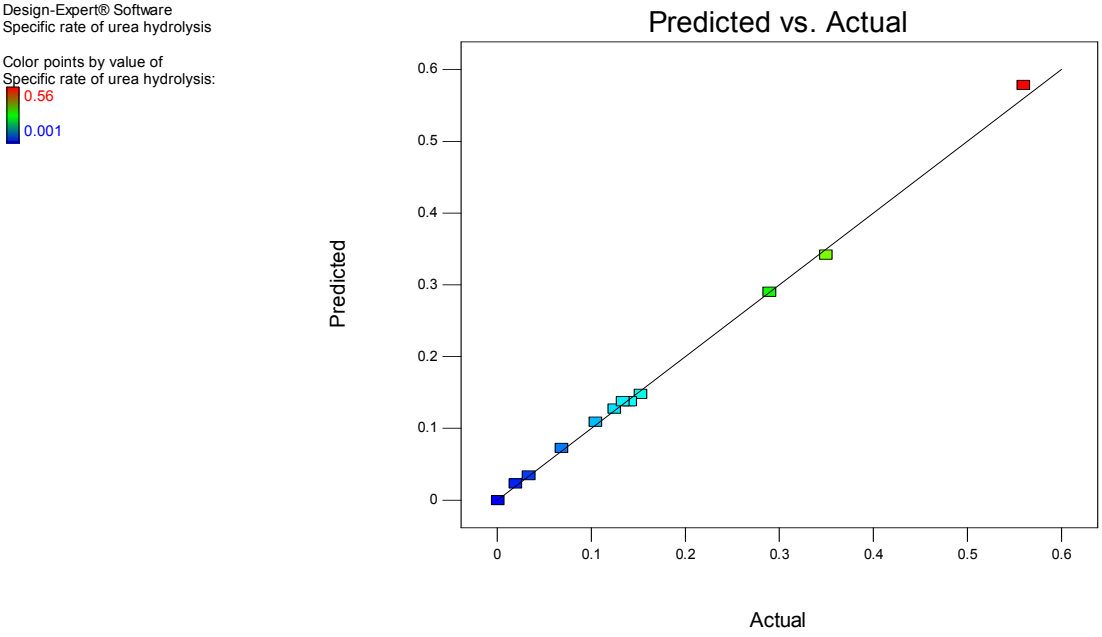


Fig. S2. Predicted responses by each statistical model versus actual observations from the experiments