

WHHS-Pro-China raw data

Pi removal efficiency of INP-PBP engineering bacteria

	Group A	Group B	Group C
	BL21	BL21-PstS	BL21-INP-PstS
	1.36000000	1.44000000	2.13
	1.49000000	1.01000000	2.01
	1.76000000	1.87000000	2.55

Effect of Pi starvation on Pi adsorption efficiency of INP-PBP engineering bacteria

Table format: Grouped		Group A			Group B		
		BL21			BL21-INP-PstS		
		A:Y1	A:Y2	A:Y3	B:Y1	B:Y2	B:Y3
1	Control	1.3100	1.6300	1.7800	2.44	2.25	2.24
2	Pi starvation	2.0200	2.2100	1.8900	4.11	3.06	3.83

Effect of pH on Pi adsorption efficiency of INP-PBP engineering bacteria

	Group A	Group B	Group C	Group D	Group E
	3	5	7	8	10
	0.34	1.34	2.07	1.42	0.42
	0.43	2.04	2.27	1.15	0.58
	0.52	1.57	2.70	1.24	0.31

Effect of temperature on Pi adsorption efficiency of INP–PBP engineering bacteria

	Group A	Group B	Group C
	25	35	45
	1.450	2.190	0.560
	1.830	2.580	0.310
	1.190	2.290	0.450

Effect of pH on Pi desorption of INP–PBP engineering bacteria

	Group A	Group B	Group C	Group D	Group E
	3	5	7	8	10
Titl	0.5420	0.1450	0.147	0.297	0.755
Titl	0.6860	0.1590	0.151	0.332	0.717
Titl	0.5760	0.1590	0.207	0.296	0.784

Effect of temperature on Pi desorption of INP–PBP engineering bacteria

Group A	Group B	Group C	C
25	35	45	
0.1650	0.4240	0.9330	
0.1900	0.4030	0.6160	
0.1250	0.5360	0.8860	

The active component of INP–PBP engineering bacteria

Cytoplasmic content	Membrane content
1.66	2.48
1.31	8.62
1.29	3.31

Pi removal efficiency of PelB–PBP engineering bacteria

Group A	Group B	Group C	G
BL21	BL21-PstS	BL21-PelB-PstS	
1.0500	1.2300	2.8300	
1.2900	1.9800	2.6800	
1.7400	1.8300	2.0500	

The active component of PelB-INP engineering bacteria

Group A	Group B	Group C
Total cell lysate	Soluble fraction	Periplasmic fraction
2.01	1.62	1.47
2.31	1.41	1.08
2.33	1.94	1.31

Removal efficiency of Pi by immobilized PBP

Group A	Group B	Group C
Bead	PelB-PstS	PelB-PstS
1.04	5.18	13.56
1.35	4.48	17.90
1.13	6.37	16.92

Effect of pH on desorption Pi of immobilized PBP

Group A	Group B	Group C	Group D	Group E
3	5	7	8	10
0.73000	0.2680	0.140	0.156	0.798
1.29200	0.3000	0.112	0.172	0.827
0.86400	0.2320	0.204	0.188	1.320

Effect of temperature on desorption P_i of immobilized PBP

	Group A	Group B	Group C
	25	35	45
	0.5720	0.2540	1.298
	0.8320	0.3880	1.327
	0.7130	0.5430	0.989