

Table S2. Orthogonal test results and range analysis

Test No.	A Temperature	B COD _{Mn}	C pH	D Blank	Survival Rate (%)
1	1	1	1	1	74
2	1	2	2	2	88
3	1	3	3	3	64
4	2	1	2	3	75
5	2	2	3	1	74
6	2	3	1	2	57
7	3	1	3	2	55
8	3	2	1	3	51
9	3	3	2	1	47
Range Analysis					
K1	226	204	182	195	
K2	206	213	210	200	

Test No.	A Temperature	B COD _{Mn}	C pH	D Blank	Survival Rate (%)
K3	153	168	193	190	
k1	75.33	68	60.67	65	
k2	68.67	71	70	66.67	
k3	51	56	64.33	63.33	
R	24.33	15	9.33	3.33	