

Supplementary Materials

Table S1. Trace Elements in Synthetic Wastewater

| Component | Concentration/ mg/L |
|---|---------------------|
| MgSO ₄ ·7H ₂ O | 23.9 |
| CaCl ₂ ·H ₂ O | 7.6 |
| FeCl ₃ ·6H ₂ O | 7.0 |
| CuSO ₄ ·5H ₂ O | 0.047 |
| MnSO ₄ ·H ₂ O | 0.06 |
| ZnCl ₂ | 0.09 |
| CoSO ₄ ·7H ₂ O | 0.20 |
| Na ₂ MoO ₄ ·2H ₂ O | 0.05 |

Table S2. Culture Medium Formula of Luminescent Bacteria

| Component | Concentration (mg L ⁻¹) |
|----------------------------------|-------------------------------------|
| Tryptone | 5 |
| Yeast powder | 5 |
| Glycerol | 3 |
| NaCl | 30 |
| Na ₂ HPO ₄ | 5 |
| KH ₂ PO ₄ | 1 |

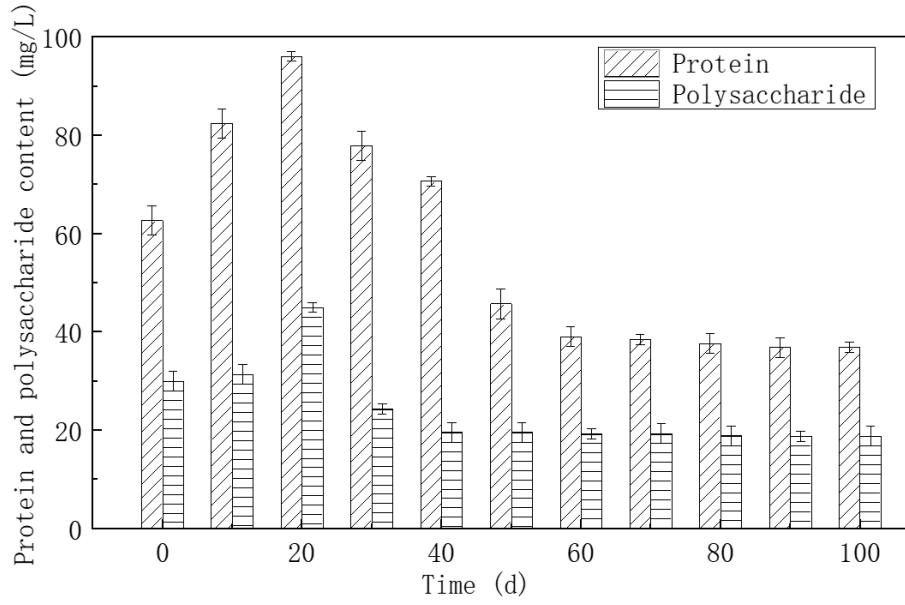


Fig. S1. Protein and polysaccharide content of sludge(4-CP).

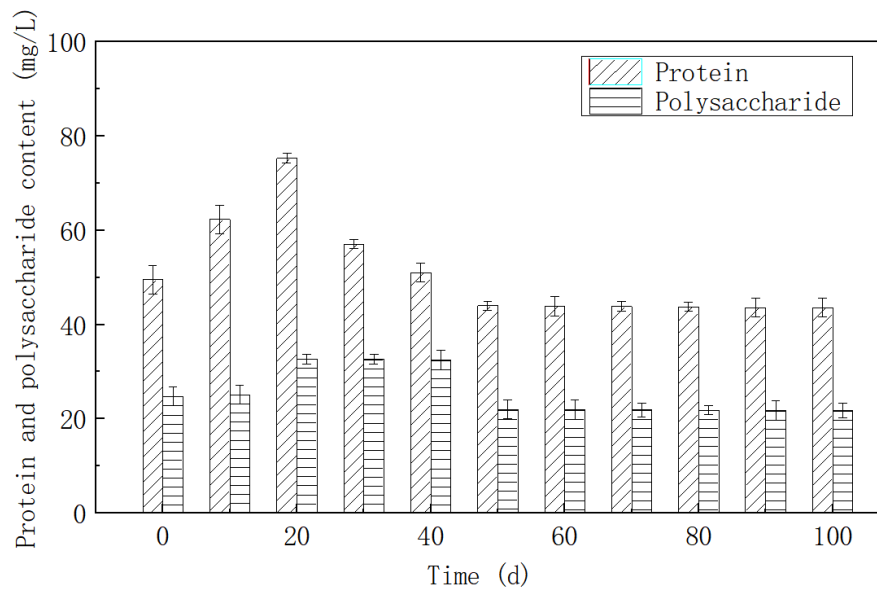


Fig. S2. Protein and polysaccharide content of sludge(2,4,6-TCP).

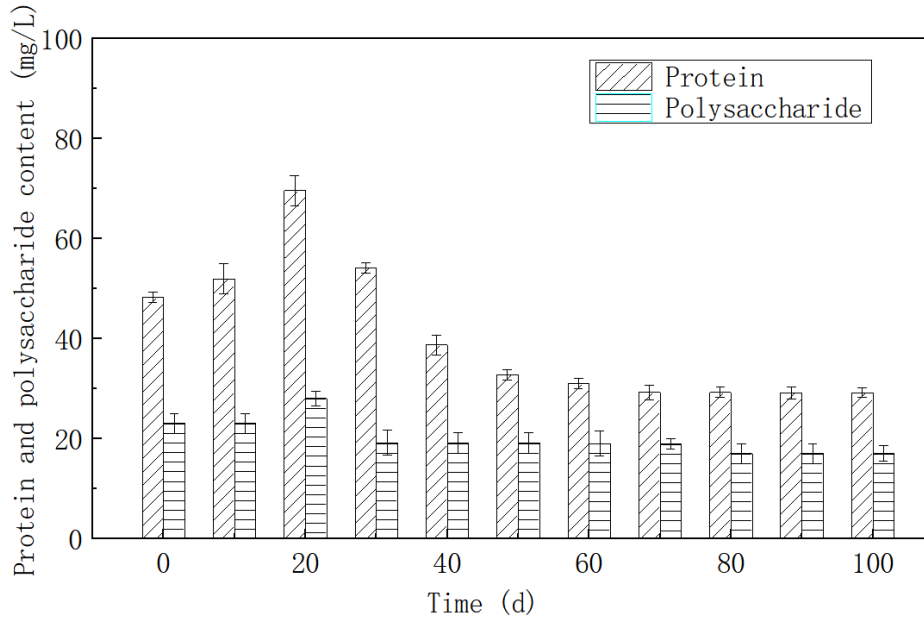


Fig. S3. Protein and polysaccharide content of sludge(mixed-CP).

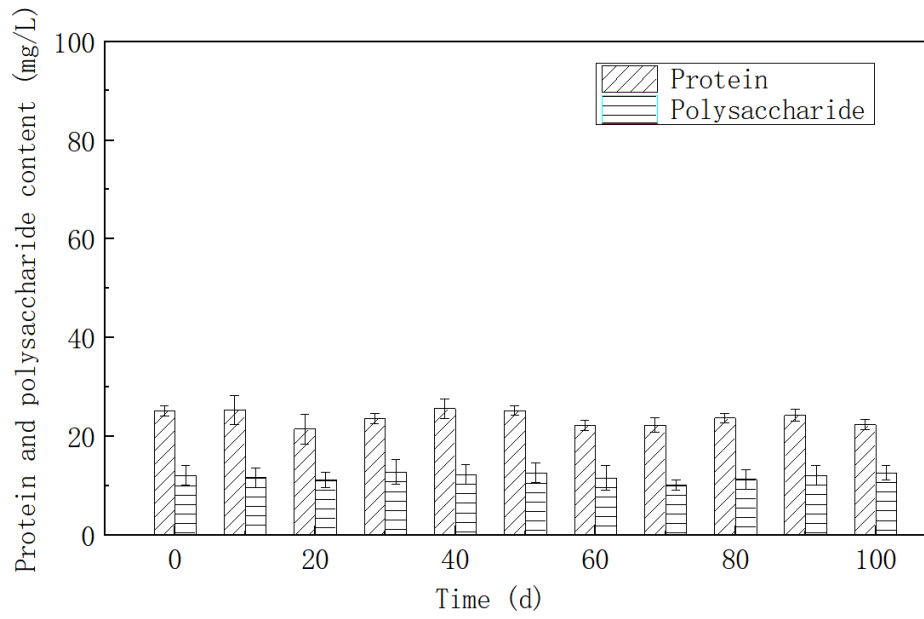


Fig. S4. Protein and polysaccharide content of sludge(Blank group).