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After centrifugation at 450

Although GJ11 is a glutamate-impartial producer, our examine showed that an addition of glutamate could also significantly enhance its

Coordination effect: if the biopolymer-based mostly flocculants contain amino, amide, hydroxyl teams and so forth., there might be coordination effect on heavy steel ions (Ren et al. In recent years, biopolymer-based mostly flocculants are mainly applied within the remedy of turbidity, dyes, heavy metallic ions, and other industrial/agricultural sewage, in addition to algae capture and sludge dewatering. Furthermore, when biopolymer-based mostly flocculants are used alone in the turbidity flocculation, they present a high turbidity removing effectivity, a broad adaptable pH vary, and resistance of the metal salts interference. If the electrical property of the biopolymer-based mostly flocculants is opposite to that of the contaminants, the electrostatic attraction makes the biopolymer-based flocculants molecules be adsorbed on the surface of contaminants, leading to charge neutralization. When contaminants are close to each other, electrostatic attraction exists between coating patches and uncoated areas with opposite charges, and thus flocculation will happen (Figure 3b). This mechanism, which is completely different

from the atypical cost neutralization mechanism, is known as patching mechanism. It usually happens in the flocculation of biopolymer-primarily based flocculants (L