

The invention relates to chemistry and biotechnology, namely to a coordinative compound of cobalt(III) and a process for cultivation of microalga *Porphyridium cruentum* with its use.

According to the invention, a coordinative compound - bis{bis(dimethylglyoximato)chloro}- $\mu$ -3-formylpyridineisonicotinoylhydrazone-di-cobalt(III) is claimed, which increases lipid and eicosapentaenoic acid synthesis.

It is also claimed a process for cultivation of microalga *Porphyridium cruentum*, which consists in that microalga is cultivated on a nutrient medium containing, g/L: NaNO<sub>3</sub> - 5.0; NaCl - 7.0; KCl - 7.5; MgSO<sub>4</sub>×7H<sub>2</sub>O - 1.8; Ca(NO<sub>3</sub>)<sub>2</sub>×4H<sub>2</sub>O - 0.15; KBr - 0.05; KI - 0.05; K<sub>2</sub>HPO<sub>4</sub> - 0.2; FeCl<sub>3</sub>×6H<sub>2</sub>O - 0.0027; ZnSO<sub>4</sub>×5H<sub>2</sub>O - 0.00002; CuSO<sub>4</sub>×5H<sub>2</sub>O - 0.00005; MnSO<sub>4</sub>×5H<sub>2</sub>O - 0.0003; H<sub>3</sub>BO<sub>3</sub> - 0.0006; MoO<sub>3</sub> - 0.00002; NaVO<sub>3</sub> - 0.00005; the compound bis{bis(dimethylglyoximato) chloro}- $\mu$ -3-formylpyridineisonicotinoylhydrazone-di-cobalt(III) - 0.008...0.012 and distilled water up to 1 L, having pH 6.8...7.2; at the temperature of 23...25°C, the light of 2000...3000 lx/cm<sup>2</sup>, with slow periodical agitation.

Claims: 2