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The invention relates to biotechnology, in particular to a process for cultivation of cyanobacterium *Spirulina platensis* for the obtaining of biomass with high content of phycobiliproteins.

The process for cultivation of cyanobacterium $Spirulina\ platensis$ includes cultivation during 6 days on a nutrient medium, containing, g/L: NaNO₃ – 2.5, NaHCO₃ – 16.8; NaCl – 1.0; K₂SO₄ – 1.0; K₂HPO₄·3H₂O – 1.0; MgSO₄·7H₂O – 0.20; CaCl₂·6H₂O – 0.04; H₃BO₃ – 0.00286; MnCl₂·4H₂O – 0.00181; ZnSO₄·7H₂O – 0.00022; CuSO₄·5H₂O – 0.00008; MoO₃ – 0.000015, 1 ml/L of FeHEDTA solution of 0.09 M and distilled water up to 1 L. On the first day of cultivation in the nutrient medium is added thiosemicarbazidediacetate-ethylenediamine Co(III) trihydrate with the formula [Co(L-H)En]·3H₂O, where:

 $L-H_2N-CS-NH-N(CH_2COOH)$ and $En-H_2N-C_2H_4-NH_2$, in the quantity of 10...20 mg/L, at the same time the cultivation is carried out at the light of 3000...4500 lx and the temperature of 25...30°C.

Claims: 1