

The invention refers to biotechnology, in particular to a process for cultivation of cyanobacterium *Spirulina platensis*.

The process for cultivation of cyanobacterium *Spirulina platensis* includes seeding of spirulina on a nutrient medium, containing the following components, g/L:  $\text{NaHCO}_3$  – 16,80,  $\text{K}_2\text{HPO}_4$  – 0,50,  $\text{NaNO}_3$  – 2,50,  $\text{NaCl}$  – 1,00,  $\text{K}_2\text{SO}_4$  – 0,50,  $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$  – 0,04,  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$  – 0,20,  $\text{H}_3\text{BO}_3$  – 0,00286,  $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$  – 0,00181,  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  – 0,00008,  $\text{MoO}_3$  – 0,000015,  $\text{FeSO}_4$  – 0,01, EDTA – 0,08 and water; cultivation thereof at the illumination of 15...24 thousand  $\text{erg/cm}^2$  and the temperature of  $35 \pm 1^\circ\text{C}$ , addition on the third day of cultivation in the nutrient medium of one of the coordinative compounds:  $[\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}]$ ,  $[\text{Zn}(\text{CH}_2\text{ClCOO})_2 \cdot 4\text{H}_2\text{O}]$ ,  $[\text{Zn}(\text{CH}_2\text{BrCOO})_2 \cdot 4\text{H}_2\text{O}]$ ,  $[\text{Zn}(\text{CHBr}_2\text{COO})_2 \cdot 4\text{H}_2\text{O}]$ ,  $[\text{Zn}(\text{CCl}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}]$ ,  $[\text{Zn}(\text{CBr}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}]$ , afterwards the cultivation is carried out three days more.

The result of the invention consists in increasing the spirulina productivity and in enhancing the peptide and amino acid content in the biomass.

Claims: 1