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The invention refers to biotechnology, namely to a process for obtaining *Spirulina platensis* cyanobacterium biomass with an increased content of zinc and may be applied in the food and pharmaceutical industry, as well as in the clinical and experimental medicine.

The process, according to the invention, includes inoculation of cyanobacterium in the quantity of 0,40...0,45 g/l in a nutrient medium containing, g/L:  $\text{NaHCO}_3$  – 16,8,  $\text{K}_2\text{HPO}_4 \cdot 3\text{H}_2\text{O}$  – 0,1,  $\text{NaNO}_3$  – 2,5,  $\text{NaCl}$  – 1,0,  $\text{K}_2\text{SO}_4$  – 1,0,  $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$  – 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, water – up to 1L and  $[\text{Zn}(\text{Gly L-Ser})]$  - 0,02...0,03, which is added by instalments: 1/3 on the first day and 2/3 on the third day of cultivation, and cultivation thereof during 6 days in the accumulation regime by a light of 3000...4800 lx, at a temperature of 30...35°C and pH 9,5...10,0.

Claims: 1