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The invention refers to biotechnology, in particular to a process for *Spirulina platensis* biomass obtaining that may be used in the pharmaceutical industry, as well as in the clinical and experimental medicine.

The process for *Spirulina platensis* biomass obtaining includes preparation of the nutrient medium, containing, g/L of water:  $\text{NaHCO}_3$  – 16,8;  $\text{K}_2\text{HPO}_4$  – 1,0;  $\text{KNO}_3$  – 3,75;  $\text{NaCl}$  – 1,0;  $\text{K}_2\text{SO}_4$  – 3,75;  $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$  – 0,04;  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$  – 0,70;  $\text{H}_3\text{BO}_3$  – 0,00286;  $\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$  – 0,00181;  $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$  – 0,00022;  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  – 0,00008;  $\text{MoO}_3$  – 0,000015,  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$  – 0,024; Fe-EDTA – 0,025, inoculation of the *Spirulina platensis* suspension in the amount of 0,40...0,45 g/L and cultivation thereof during 6 days in the accumulation regime under the light of 3400...4800 lx, at a temperature of 31...36°C and pH of 9,5...10,0.

Novelty of the invention consists in that on the first day of cultivation into the medium is added the coordinative compound  $[\text{Fe}_2\text{Mg}(\text{CCl}_3\text{COO})_6(\text{CH}_3\text{OH})_3]$  in the quantity of 0,005...0,025 g/L.

Claims: 1