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The invention refers to biotechnology, in particular to processes for obtaining *Spirulina platensis* biomass with an increased content of iron that may be used in the food, pharmaceutical industry and medicine.

The process for *Spirulina platensis* biomass obtaining includes preparation of the nutrient medium, containing, g/L of water: NaHCO_3 – 16,8; $\text{K}_2\text{HPO}_4 \cdot 3\text{H}_2\text{O}$ – 1,0; NaNO_3 – 2,5; NaCl – 1,0; K_2SO_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; H_3BO_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; MoO_3 – 0,000015, inoculation of *Spirulina platensis* suspension in a quantity of 0,4 g/L and cultivation thereof during 6 days in the accumulation regime under the light of 3000...4800 lx, the temperature of 30...35°C and pH of 9,5...10,0. Into the medium there is supplementary introduced the coordinative compound $[\text{Fe}_2\text{MgO}(\text{CCl}_3\text{COO})_6(\text{THF})_3]$, in a concentration of 0,040...0,050 g/L by instalments, namely half in the first day of cultivation and half on the third day of cultivation.

Clams: 1