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The invention relates to the biotechnology, particularly to the microalgae cultivation, namely, Spirulina alga- the valuable protein-vitaminic biomass. The aim of the invention consists in increasing the yield of spirulina blue-green microalga. The method consists in the fact that in the nutrient mineral medium there is introduced the coordinative copper compound of copper (II) L- $\alpha$ -alanilate-L-serinate in quantity of 0,05-0,1 mg/l, after which the microalgae are cultivated at the continuous illumination and mixing in the collection regime. The proposed method provides the increasing of spirulina biomass yield on the 5th day, average 20-40% in comparison with the known method.