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The invention relates to phycobiotechnology, in particular to a process for cultivation of *Spirulina platensis* cyanobacterium, for use in medicine and food industry.

The process, according to the invention, comprises the inoculation of cyanobacterium on a Zarrouk nutrient medium, cultivation for 7 days at the light of 3500 lx and the temperature of 35°C, then on the 8th day 2...4 mg/l of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ is added to the medium and the cultivation is carried out for further 3 days at a light of 3.500...5.500 lx.

The result consists in increasing the productivity of cyanobacteria and the content of acid exopolysaccharides.

Claims: 1