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The invention relates to biotechnology, namely to a process for cultivating *Spirulina platensis* cyanobacterium and can be used for producing raw materials for the development and manufacture of drugs with anticancer and immunomodulatory action.

According to the invention, the process for cultivating *Spirulina platensis* cyanobacterium comprises cultivation of cyanobacterium on a nutrient medium, containing, g/L: NaNO₃-2,5; NaHCO₃-8.0; NaCl-1.0; K₂SO₄-1.0; Na₂HPO₄-0.2; MgSO₄ ·7H₂O-0.2, H₃BO₃-0.00286; MnCl₂·4H₂O-0.00181; CuSO₄·5H₂O-0.00008; MoO₃-0.000015, FeEDTA 1.0 ml/L and distilled water the rest, at a temperature of 30-32°C, pH 8.0-10.0 and illumination of 37-55 μM photons/m²/s in continuous regime, for 6 days, at the same time silver nanoparticles in a polyethylene glycol shell of a size of up to 5 nm, in a concentration of 0.10-0.12 μM/L are added into the nutrient medium on the fifth day of cultivation.

The technical result consists in reducing the content of malondialdehyde in the spirulina biomass.

Claims: 1