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The dynamics of accumulation of total and acidic (sulfated) exopolysaccharides (EPS) produced by cyanobacteria *Spirulina platensis* and *Nostoc linckia* under the action of some chemical regulators at the two steps cultivation with the increasing of light at the second step were established. Procedures of EPS isolation from cyanobacteria *Spirulina platensis* and *Nostoc linckia* and the scheme of EPS production, obtaining and quantification have been developed. The synthesis of sulfated exopolysaccharides (till 91 mg/l) at the cultivation of spirulina in two stages was positively influenced by the variation of the light regime and the addition of carbon source with or without addition of Na₂SeO₃. Supplementing of the nutrient medium with sodium selenite (2 mg/l) and varying of light to 2500 lx in the 7th day of cultivation of cyanobacteria *Nostoc linckia* led to a maximum increasing in the amount of total and acidic exopolysaccharides (477 and 422 mg/g, respectively).