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A study of the $[\text{Cr}(\text{Gly})_3]\text{Cl}$ effect on the biochemical composition of the cyanobacterium *Spirulina (Arthrospira) platensis* has been carried out at cultivation depending on the lighting regime and the timing of addition of this compound. Its positive effect on protein content (including peptides) was established within the concentration limits of up to 30 mg /l. Chromium accumulation was more efficient in light/dark photoperiod (14/10 hours) in case of supplementation on the 1st and 3rd days in the portions. The technological scheme for obtaining chromium bioadditive was proposed. This procedure is based on using a Cr(III) glicinate as source of Cr(III) for obtaining of spirulina biomass enriched with chromium (0,75%) and valuable bioactive substances.