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The invention relates to the biotechnology and may be used in the medicine at the immunodiagnosis, as well as in food, cosmetic and other industries.

The summary of the invention consists in the cyanobacteria biomass water suspension preparation, congelation-decongelation thereof in two repeatings, biomass separation and consecutive fractionation by extraction of the fraction I from the supernatant at pH less or equal to 4,0 and fraction II from the precipitation at pH less of the precipitating proteins isoelectric point. Then the pH of the obtained fractions is maximized up to 7,5, it is realized the hydrophobic chromatography on phenyl- sepharose and obtained phycocyanine lyophilization.

The technical result of the invention consists in the phycocyanine purity grade increasing.

Claims: 1