

95-0288

The invention relates to the biotechnology, in particular, to the mediums for red algae *Porphyridium cruentum* cultivation that is a source of polyunsaturated fatty acids, used in medicine for cordial diseases treatment.

The summary of the invention consists in the fact that the medium for red algae *Porphyridium cruentum* cultivation contains KCl, NaCl, $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$, K_2HPO_4 , $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$, KBr, KI, nitrate of alkali metal, $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$, $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$, $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$, MnSO_4 , H_3BO_3 , NaVO_3 , MoO_3 , in which NaNO_3 is used as alkali metal, and in addition, the medium contains isopropyl alcohol.

The technical result of the invention consists in the rise of the biomass quantity up to 6,2-6,7g/l, as well as in the rise of algae biomass synthesis of arachidonic and eicosapentaenoic acids up to 2,200-2,304% and 1,00-1,04% accordingly.