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The invention relates to the microbiological biotechnology, in particular, to the medium for red algae *Porphyridium cruentum* cultivation. The summary of the invention consists in the medium for red sea algae *Porphyridium cruentum* cultivation containing KCl, NaCl, MgSO₄·7H₂O, K₂HPO₄, Ca(NO₃)₂·4H₂O, KBr, KI, FeCl₃, ZnSO₄, CuSO₄, MnSO₄, H₃BO₃, NaVO₃, MoO₃, in which NaNO₃ and ethyl alcohol are added.

The technical result of the invention consists in the rise of the culture productivity and in the phycoerythrite biomass quantity increasing.