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The invention relates to the microbiological industry, in particular, to the algology.

The summary of the invention consists in the fact that the proposed medium for red algae *Porphyridium cruentum* cultivation contains KCl, NaCl, MgSO₄·7H₂O, K₂HPO₄, Ca(NO₃)₂·4H₂O, KBr, KI, nitrate of alcali metal, FeCl₃·6H₂O, ZnSO₄·7H₂O, CuSO₄·5H₂O, MnSO₄, H₃BO₃, NaVO₃ and MoO₃, in which NaNO₃ is used as alcali metal and, in addition, the medium contains sucrose.

The technical result of the invention consists in the balanced content of medium components.