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The invention relates to the microbiological biotechnology, particularly to the media for *Propionibacterium freudenreichii* s.s. *chermanii* cultivation - the porphyrin producer. The porphyrins have found a broad application in the chemical industry as reagents, in the food industry as pigments and colorants, in the medicine as medicines and preparations for immunodiagnostics.

The summary of the invention consists in the fact that it is proposed a medium for *Propionibacterium freudenreichii* s.s. *chermanii* cultivation comprising: corn extract, glucose, $(\text{NH}_4)_2\text{SO}_4$, $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$, 5,6 dimethylbenzimidazole, wherein as a factor for porphyrin synthesis stabilization and stimulation supplementary is added an extract of *Nostoc linckia* - CNM-CB-03 cyanobacterium (National Collection of cyanobacterium - microorganisms 03) in the following component ratio, g/l:

corn extract	70,0-80,0
glucose	12,0-14,0
$(\text{NH}_4)_2\text{SO}_4$	3,0-3,5
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	0,01-0,012
5,6 dimethylbenzimidazole	0,02-0,03
Nostoc extract	2,0-2,5.

The technical result of the invention consists in the fact that the proposed medium ensures a high level of porphyrin synthesis (72,9 mg/l in comparison with the prototype - 35,5 mg/l), as well as the crop productivity stability and the results reproduction.