

**94-0397**

The invention relates to the microbiological biotechnology, in particular, to the media for *Propionibacterium freudenreichii* s.s. *chermanii* cultivation the cyanocobalamin and porphyrin producer.

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 dimethylbenzimidase, wherein as stabilizing and stimulating factor supplementary is added lipidic extract of *Porphyridium cruentum* red alga in the following component quantitative 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 dimethylbenzimidase	0,02-0,03
lipidic extract	0,015-0,020.

The technical result of the invention consists in the fact that the proposed medium ensures a high level of the culture productivity - 10,9 g/l of absolutely dry biomass in comparison with the prototype - 7,8 g/l; the culture grown on the said medium synthesizes 2,4 time more than cyanocobalamin and 1,6 times more with the prototype; the proposed medium ensures the productivity stability of the culture grown on it.