

95-0243

The invention relates to the biotechnology, particularly to the media for *Propionibacterium Freudenreichii s.s. chermanii* cultivation - source of porphyrins and cyanocobalamin - important bioactive origins, in the chemical, food industries, medicine, zootechny.

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, $(\text{NH}_4)_2 \text{SO}_4$, 5,6 dimethyl-benzimidase, cobalt source, where as a cobalt source is used the co-ordinative compound $\delta\text{Co}(\text{NH}_3)_6\mu(\text{NO}_3)_3$ in the following component ratio, g/l:

corn extract	70,0-80,0
glucose	12,0-15,0
$(\text{NH}_4)_2 \text{SO}_4$	3,0-3,5
5,6 dimethylbenzimidase	0,02-0,03
$\delta\text{Co}(\text{NH}_3)_6\mu(\text{NO}_3)_3$	0,014-0,020.

The technical result of the invention consists in the fact that the proposed medium, in comparison with the prototype ensures increasing of cyanocobalamin synthesis with 13,5% and the porphyrins synthesis with 147,1%, the addition of co-ordinative compound into the medium ensures the simultaneous presence of cobalt and nitrogen sources in an optimal ratio.