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Process for synthesis of cyanocobalamine by the propionic acid bacteries in accordance with the invention forsees the microorganisms cultivation in two phases at the facultative aerobic conditions in the nutritive medium consisting of (g/l): maize extract - 60,0; glucose - 35,0; ammonium sulfate - 3,5; 5,6-dimethylbenzimidazole - 0,02; Porphyridium cruentum extract - 0,6; zinc benzoate - 0,0075 and tetrahydrate nickel(II) picolinate - 0,0075, in which on the third day of cultivation the coordination compound of diaminodichlorethylendiamine cobalt(III) nitrate as cobalt sourse in the quantity of 0,009 is added.

The technical result of the invention consists in the stability increasing of the cyanocobalamine synthesis process.