

A process for the preparation of bacterial starter provides for common cultivation in milk of *Bifidobacterium langum* species, acetic acid bacteria of *Acetobacter aceti* and *Acelobacter pasteurianus* species, subsequent combining with lactic-acid bacteria. The ferment formulation additionally contains strains of propionate bacteria *Propionibacterium freudenreichii* and *Propionibacterium acidipropionici* selected according to vitamin synthesizing properties and antagonistic activity against potentially pathogenic microorganisms. Bifidus bacteria strains of *Bifidobacterium bifidum* species are additionally used. Preliminary prepared symbiosis of lactic-acid and acetic acid bacteria is combined with symbiosis of bifidus, propionate and acetic acid bacteria in ratio of 1:3.