

A process for biosynthesis of L-glutamic acid consists in preparation of a seed medium with the use of molasses and nutrient salts, growth of the seed material and fermentation at an inoculator. The stage of growing the seed material is combined with the stage of fermentation and the process is carried out at the same apparatus. The molasses for biosynthesis of glutamic acid is divided into parts with the ration of 1:5. The total quantity of the nutrient salts is added to the smaller part, then it is diluted with water to the dry substance content of 4-6 % and used for growing the culture until the stage of retarded growth, then the rest part of molasses is introduced into the fermenter every 3 hours, by batches that ensure the dry substance content of 4-6 % in the medium.