

MD.79.**Title****Process for extracting mannoproteins from brewer's yeast sediments.****Authors**

BEȘLIU Alina, CHISELIȚA Natalia, CHISELIȚA Oleg, EFREMOVA Nadejda, TOFAN Elena, LOZAN Ana, ROTARI Doina.

Institution

Public Institution Institute of Microbiology and Biotechnology.

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**Description
EN**

The invention relates to microbial biotechnologies, in particular to the process of extracting mannoproteins from yeast sediments from waste from the beer industry. The process can be used to obtain mannoproteins with high application potential in zootechnics, food, pharmaceuticals, medicine and agriculture.

The process according to the invention includes the use of brewer's yeast biomass (30 g) which is mixed with 30 ml of sodium phosphate buffer (1:1 ratio) then subjected to autolysis at +37°C or +45° C for hours, with periodic stirring, then centrifuge and the process of remaining the sediments with 1N NaOH solution (1: 5 ratio) at +80±5° C for 2 hours, centrifugation at 3500 rpm. For 15 min, the alkaline supernatants obtained were sedimented with 96% ethyl alcohol in a volume of 1: 2.

Elaboration of a process for extraction of mannoproteins from yeast sediments from beer production, which allows obtaining 7-16% more mannoproteins than the nearest solution, use of waste that pollutes the environment, reduction of autolysis time, temperature and amount of ethyl alcohol used.

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Class no.

1. Environment - Pollution Control.
3. Agriculture and Food Industry.
4. Medicine - Health Care – Cosmetics.