

**Title:** BIOLOGICALLY ACTIVE PREPARATION BASED ON YEAST BIOMASS FROM THE WASTE OF BEER INDUSTRY

**Patent/project number:** Patent application No. a 2021 0016/2021.03.30

**Author/s:** Chiselița Natalia, Chiselița Oleg, Beșliu Alina, Efremova Nadejda, Tofan Elena, Lozan Ana, Daniliș Marina

**Institution:** Public Institution Institute of Microbiology and Biotechnology, Ministry of Education and Research of the Republic of Moldova

**Category:** A

**Description:** The invention relates to the field of ecology and microbial biotechnology, in particular to the production of a biologically active natural preparation from yeast biomass from the beer industry wastes which can be used in the livestock sector and the food industry. According to the invention, a biologically active, natural preparation is claimed, obtained from yeast biomass, by freezing and thawing of biomass, autolysis of biomass in sodium phosphate buffer (1:1 ratio), at +45°C, for 8 hours, containing: proteins – 64,6±2,6%, carbohydrates - 11,7±2,2%, lipids-0,13±0,02%, ash 13,5±1,4% and is characterized by a high summary contain of essential aminoacids of 55,7 g/100 g of protein. The socio-economic importance of the work consists in the diversification of biologically active natural preparations, for use in the food industry and Animal Husbandry, in the efficiency of waste processing and recovery of the alcoholic beverage industry, which will significantly reduce their negative impact on the environment. The research was carried out within the project 20.80009.5107.16, funded by NARD, Republic of Moldova.

**State of development:** The product is applied within the Scientific-Practical Institute of Biotechnologies in Animal Husbandry and Veterinary Medicine and implemented within the household of SRL "Strapit" (Republic of Moldova) and PhD thesis