

Title: PROCESS FOR EXTRACTING MANNOPROTEINS FROM BREWER'S YEAST SEDIMENTS

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Category: A

Description: 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 centrifugation and the process of remaining the sediments



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with 1N NaOH (1:5) ratio solution at $+80\pm 5^{\circ}\text{C}$ for 2 hours, centrifugation at 3500 rpm. For 15 minutes, the alkaline supernatants obtained were sedimented with 96% ethyl alcohol in a volume of 1:2. The process allows obtaining 41,34-44,8% S.U. mannoproteins. The advantages of the elaborated process consist in the use of industrial products, obtained in enormous quantities following the brewing process, the reduction of the autolysis time, the reduction of the temperature to avoid protein denaturation and the activity of antioxidant enzymes, the reduction of the ethyl alcohol used and the elaboration of natural preparations with practical implementation in various branches of the country's economy, especially in the livestock sector. The research was carried out within the project 20.80009.5107.16, funded by NARD, Republic of Moldova.

State of development: *The procedure is applied to obtain mannoprotein preparations within the Institute of Microbiology and Biotechnology, was tested for the process of perfecting the protocol for conserving sperm at hypothermic temperatures at the Scientific-Practical Institute of Biotechnology in Animal Husbandry and Veterinary Medicine and implemented within the household "Agroseminvest" SRL (Republic of Moldova) and PhD thesis.*