

Title: PRODUCTION PROCESS AND MANNOPROTEIN PREPARATION OBTAINED BASED ON YEAST BIOMASS FROM THE WASTE OF THE WINE INDUSTRY

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Category: A.

Description: The production process according to the invention includes the use of yeast biomass from wine industry waste which is subjected to autolysis with sodium phosphate buffer solution (1: 1 ratio) at +45° C for 8 hours, centrifugation, treatment of cell walls with 50% alcohol solution, centrifugation, hydrolysis with 1N NaOH solution, centrifugation, sedimentation of mannoproteins with 96% ethyl alcohol in a volume of 1:2, dissolution of mannoproteins in distilled water, standardization up to 10 mg/mL, it was established that mannoproteic preparation contains: proteins 57.84±0.9%, carbohydrates 31.40±2.65%, anthocyanins 12.42±0.08 mg/gL, trace elements 4.05 mg/ml, antioxidant activity 33.4±0.3% inhibition, SOD activity 263.0±4.04 U/mg protein and CAT 525.0±3.1 mmol/min per mg



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protein. Areas of application: Environment-Pollution Control, Zootechnics, Agriculture, Medicine - Health Care-Cosmetics and Pharmaceutical Industry. The research was carried out within the project 20.80009.5107.16, funded by NARD.

State of development: The product is used in a laboratory at the Scientific-Practical Institute of Biotechnologies in Animal Husbandry and Veterinary Medicine and PhD thesis.

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