

Project number 8. MES of the RK

Topic: «Development of technology for the production of therapeutic and preventive nutrition products based on mare's milk with immunomodulatory properties».

Project manager – Boranbayeva Togzhan.

The amount of financing for 2023-2025 is 68 129 094 tenge.

The research on the project involved: T. Boranbayeva, M. Toishimanov, Zh. Dossimova, D. Zhalelov, A. Zhunisbek, A. Bolat, A. Abzhaliyeva,

The proposed project "Development of technology for obtaining therapeutic and preventive nutrition products based on mare's milk with immunomodulatory properties" is an important aspect in the development of functional products for the population of the country that strengthen the immune system, fight gastrointestinal infections. More importantly, the development of technology for obtaining new products from mare's milk will create important strategic, economic and social tasks facing the agro-industrial complex of the Republic of Kazakhstan, the solution of which will improve the quality of life and health of the population.

The main purpose of the development of technology for the production of therapeutic and preventive nutrition products based on mare's milk is a comprehensive study of safety, quality and development of technology for the production of new therapeutic and preventive fermented products with immunomodulatory properties based on mare's milk.

To achieve this goal, it is necessary to solve the tasks of research and identification of biological pollutants of mare's milk, study of the physico-chemical properties of mare's milk depending on the seasons, isolation and identification of lactic acid bacteria from traditional fermented milk products, identification of isolated probiotic strains by PCR, and develop a technology for obtaining products of therapeutic and preventive nutrition based on mare's milk with immunomodulatory properties, quality control of sorting, as well as develop regulatory documents.

The project will be implemented by young scientists, 2 doctoral students and 2 undergraduates will take part in the project to develop scientific potential. The project manager is PhD, head of the reference laboratory of dairy products at KazNAIU Boranbayeva T.K., the scientific interests of the scientist are milk and dairy products. Her main specialization is related to the development, study and introduction into production of various probiotic strains with therapeutic and prophylactic properties from various traditional fermented milk products.