

Project Number	DP21681907
Project Title:	Waste-free production of vegetable oils enriched with micronutrients using ultrasonic extraction
Results of scientific and (or) scientific-technical activities	RSSTA23RK156 Technology for obtaining vegetable oils enriched with berry micronutrients
Applicant	S. Seifullin Kazakh Agrotechnical Research University NJSC
Grant Recipient	"НПП "NutriTech" LLP
Private Partner	"Пульс N" LLP
Implementation Period	2023-2025
Implementation Location (City/Region)	Astana
Industry:	Food industry
Project Goal:	Commercialization of RSSTA through the introduction of the developed technology for obtaining vegetable oils enriched with berry micronutrients
Project outcomes and results:	The production of functional vitaminized vegetable oils in combination with berries has increased biological value, digestibility, and therapeutic and prophylactic properties aimed at enhancing the body's protective and immune mechanisms.
Advantages	Extraction of biologically active substances from berries using ultrasound is an innovative, fast and sustainable alternative to traditional technologies. The offered products solve the problem of filling the shelves with the necessary in-demand functional products based on local organic raw materials: flax seeds, sunflower seeds, pumpkin seeds, wild berries.
Implementation Status:	In progress
Website	https://oil-eco.kz/news/
List of Products with Prices:	As part of the commercialization of R&D, two types of products are planned for release: <ul style="list-style-type: none"> 1. Regenerated feed oil (acid value: 0.4 mg KOH/g; peroxide value: 3.5 mmol/kg ½O; moisture content: 0.1%), with a design capacity of 2.1 tons/shift – 360 KZT 2. Regenerated technical oil (acid value: 1.2 mg KOH/g; peroxide value: 4 mmol/kg ½O; moisture content: 0.1%), with a design capacity of 0.9 tons/shift – 360 KZT
Project Team (Full Names)	Almas AskarovichSuleimenov ZhuldyzIsakovnaSataeva NurbibiSovetovnaMashanova MirgulYesengalievnaSmagulova TynykAkimbergenovichKambarov MaralZhanatovnaNurseitova

