

Assessment of the Quality of a Mixture of Vegetable Oils from Kazakhstan Origin

Authors : Almas Mukhametov, Dina Dautkanova, Moldir Yerbulekova, Gulim Tuyakova, Raziya Zhakudaeva, Makpal Seisenaly, Asemay Kazhymurat

Abstract : The composition of samples of mixtures of vegetable oils of Kazakhstan origin, consisting of sunflower, safflower and linseed oils, has been experimentally substantiated. With an approximate optimal ratio of w-6:w-3 fatty acids in 80:15:05 triacylglycerols, providing its therapeutic and prophylactic properties. The resulting mixture can be used in the development of functional products. The result was also identified and evaluated by physical and chemical quality indicators, the content of vitamin E, and the concentration of ions of copper (Cu), iron (Fe), cadmium (Cd), lead (Pb), arsenic (As), nickel (Ni), as well as mercury (Hg).

Keywords : vegetable oil, sunflower, safflower, linseed, mixture, fatty acid composition, heavy metals

Conference Title : ICFQS 2021 : International Conference on Food Quality and Safety

Conference Location : San Francisco, United States

Conference Dates : September 27-28, 2021