



От _____ № 638

На № _____ от _____

Ethical approval

1.	Full name of PhD student	Syrgabek Yerkanat Arkynuly
2.	Specialty of PhD Program	8D05301 – Chemistry
3.	Time period of study at PhD Program	2020-2023
4.	Theme of the thesis, date of approval	Development of methods for the determination of pesticides in grapes using solid-phase microextraction, 14.06.2023
5.	Information about scientific supervisor (-s) (Name, title, degree, work position and citizenship)	<u>Alimzhanova M.B.</u> , Deputy Director of Center of Physical-Chemical Methods of Research and Analysis. Candidate of Chemical Sciences, Assoc. Professor of the Departments of Thermophysics and Technical Physics, Faculty of Physics and Technology, Republic of Kazakhstan. <u>Pedro Antonio García Encina</u> , Professor of the Department of Chemical Engineering and Environmental Technology and Head of the Research Institute of Sustainable Processes of the University of Valladolid, Spain.
6.	Objects of study	Optimization of "green" methods for the determination of pesticides in grapes based on headspace solid-phase microextraction followed by gas chromatography and mass spectrometry.
7.	Planning, sampling and conducting of study	Violations are not revealed
8.	Dissemination of results or practical implementation	Violations are not revealed
9.	Protection of rights, safety and welfare of research objects	The objects of wildlife and habitat are not used
10.	Code of approval	IRB- A1728
11.	Date of study approval	07.10.2025

Chair of LEC

Secretary of LEC



G. Ussatayeva

S. Madiyev