## «ӘЛ-ФАРАБИ АТЫНДАҒЫ ҚАЗАҚ ҰЛТТЫҚ УНИВЕРСИТЕТІ»

КОММЕРЦИЯЛЫҚ ЕМЕС АКЦИОНЕРЛІК ҚОҒАМЫ

ҒЫЛЫМ ЖӘНЕ ИННОВАЦИЯЛЫҚ ҚЫЗМЕТ ЖӨНІНДЕГІ ДЕПАРТАМЕНТІ **ЖЕРГІЛІКТІ ЭТИКАЛЫҚ КОМИТЕТ** 



## НЕКОММЕРЧЕСКОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО «КАЗАХСКИЙ НАЦИОНАЛЬНЫЙ УНИВЕРСИТЕТ ИМЕНИ АЛЬ-ФАРАБИ»

ДЕПАРТАМЕНТ ПО НАУКЕ И ИННОВАЦИОННОЙ ДЕЯТЕЛЬНОСТИ ЛОКАЛЬНЫЙ ЭТИЧЕСКИЙ КОМИТЕТ

От	_Nº	623	
Ha №	от		

## Ethical approval

1.	Full name of PhD student	Bukenov Bauyrzhan	
2.	Specialty of PhD Program	Educational program	
		«8D05301 – Chemistry»	
3.	Time period of study at PhD Program	2019-2022	
4.	Theme of the thesis, date of approval	Development of analytical methods for determination of unsymmetrical dimethylhydrazine transformation products in air 23.10.2019 - №4-5697-6/a	
5.	Information about scientific supervisor (-s) (Name, title, degree, work position and citizenship)	Kenessov Bulat, PhD, Professor of the Department of Analytical, Colloid Chemistry and Technology of Rare Elements, Faculty of Chemistry and Chemical Technology, al-Farabi Kazakh National University, Director of the Analytical Center for Scientific and Technological Development at National Academy of Science of Republic of Kazakhstan. Citizenship: Republic of Kazakhstan Dmitry S. Kosyakov, PhD, Docent Director of Core Facility Center 'Arktika', Northern (Arctic) Federal University Member of the Scientific Council for Analytical Chemistry of the Russian Academy of Sciences. Citizenship: Russian Federation	
6.	Objects of study	Quantitative determination of transformation products of unsymmetric dimethylhydrazine in air using solid-phase microextraction, sorption tubes and gas chromatography with mass spectrometric detection	
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 study did not involve any living subjects or objects requiring the protection of rights, safety, or welfare	
10	Code of approval	IRB- A1676	
11	Date of study approval	26.06.2025	

Chair of LEC

Secretary of LEC

G. Ussatayeva

S. Madiyev