



№ 591
Алматы қаласы

№ _____
город Алматы

Ethical approval

1.	Full name of PhD student	Rakhym Akmaral Bakhytzhankyzy
2.	Specialty of PhD Program	6D060600 - Chemistry
3.	Time period of study at PhD Program	2018-2021
4.	Theme of the thesis, date of approval	Sorbents based on aluminosilicate raw materials for heavy metal ions, bisphenol-A and propranolol extraction from aqueous solutions, 04.12.2023
5.	Information about scientific supervisor (-s) (Name, title, degree, work position and citizenship)	Seilkhanova Gulziya, doctor of chemical sciences, professor of the department of physical chemistry, catalysis and petrochemistry al-Farabi KazNU, Almaty, Kazakhstan; Mastai Yitzhak, PhD, professor of Bar-Ilan University, Ramat-Gan, Israel
6.	Objects of study	Sorbents based on zeolite and chamotte clay, modified with anionic surfactant – SLES or cationic surfactant – DDAB; aqueous solutions containing ions of various heavy metals, bisphenol-A and propranolol.
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 object of study is not related to the presence of wildlife and habitat
10.	Code of approval	IRB- A1626
11.	Date of study approval	15.05.2025

Chair of LEC

G. Ussatayeva

Secretary of LEC

M. Shaukharova

