|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Конырбаева Динара | - | | Ticket 1 | | - | | - | | 0 |  | |
| Өндіріс Бағжан   2 |  | - | | Ticket 2 | | - | - | | 0 | |  |
| Рамазанова Жанел |  | - | | Ticket 2 | | - | - | | 0 | |  |
| Тұрғанбай Сымбат |  |  |  | Ticket 4 |  |  |  |  |  |  |  |  |

**Ticket 1**

1. Basic principles of differential Centrifugation
2. Describe method of protein purification by precipitation
3. Describe staining methods to detect and analyze proteins

**Ticket 2**

1. Analyze the properties of detergents and their using for membrane proteins
2. Show method of gel filtration chromatography
3. Show methods of nucleic acid (DNA) isolation

**Ticket 3**

1. Present biophysical methods in cell study
2. Describe ion exchange chromatography method
3. Show methods of nucleic acid (DNA) analysis

**Ticket 4**

1. Characterize Development of methods for cell disruption
2. Determine mass spectrometric analysis of proteins
3. Present using gel electrophoresis to separate and analyze the nucleic acids