**Application № 1**

**Name of the scientific laboratory: Testing Laboratory of the Research Institute "Agroinnovations and Biotechnology"**

1. **Objectives of the scientific laboratory: Providing services for analyzing the quality of milk, feeds, and compound feeds. Tuber analysis of seed potatoes.**
2. **List of laboratory equipment:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **№** | **Equipment Name** | **Brief Equipment Description** | **Tasks Performed on the Equipment** | **Year of Manufacture** | **Certification (yes/no)** | **Verification Date** | **Equipment Notes** |
| **1** | Laktan 1-4M | Milk Quality Analyzer | Measurement of fat, protein, somatic cell count (SCC), and density in milk. | 2018 | Yes | 07.09.2023 |  |
| **2** | Laktan 1-4M | Milk Quality Analyzer | Determination of moisture, protein, starch, fat, fiber, sugar, and ash content in grain crops. | 2018 | Yes | 07.09.2023 |  |
| **3** | Spectran-119M | Grain Infrared Analyzer | For quality control of milk and determination of somatic cell count in milk based on conditional viscosity. | 2013 | Yes | 07.09.2023 |  |
| **4** | Somatos-Mini | Somatic Cell Count Analyzer in Milk | For quality control of milk and determination of somatic cell count in milk based on conditional viscosity. | 2016 | Yes | 07.09.2023 |  |
| **5** | Somatos-Mini | Somatic Cell Count Analyzer in Milk | Used for measuring light absorption (optical density). | 2016 | Yes | 07.09.2023 |  |
| **6** | Infinite F50 | Immunoassay Analyzer | Used for drying and processing. | 2017 | Yes | 07.09.2023 |  |
| **7** | ShS-80-01 SPU | Drying Cabinet | Used for sterilization and disinfection. | 2006 | Not a subject to verification |  |  |
| **8** | MELAtronic 23 | Autonomous Semi-Automatic Autoclave | For heating test tubes and maintaining a uniform temperature. | 2005 | Not a subject to verification |  |  |
| **9** | TT-2 "Termit" | Solid-State Thermostat with Timer | For separating biological fluid samples and solutions into fractions. | 2013 | Yes | 13.12.2019 |  |
| **10** | ELMI CM-50 | Laboratory Centrifuge | For static mass measurement. | 2016 | Not a subject to verification |  |  |
| **11** | ALC-150.3 | Electronic Laboratory Scales | For conducting PCR analysis. | 2005 | Yes | 12.04.2018 |  |
| **12** | TP4-PCR-04-Terstchik | Programmable Thermostat | Measurements of the ionic composition of liquids. | 2014 | Yes | 13.12.2019 |  |
| **13** | Sartorius PB-11 | pH Meter | For conditioning heat-sensitive media or microbiological heating. | 2011 | Yes | 17.04.2018 |  |
| **14** | Incubator with natural convection type BD 53 | Incubator with Natural Convection | Research on animal blood samples. | 2016 | Yes | 13.12.2019 |  |
| **15** | MicroCC-20Vet | Automatic Veterinary Hematological Analyzer | Measurement of fat, protein, somatic cell count (SCC), and density in milk. | 2016 | Yes | 2023 |  |

**Responsible persons: Azat Maratovich Sadykkaliev, Nursultan Nurlanovich Kainidenov**

**Contacts: Phone: +7 771 277 1123, Email: n.kainidenov@gmail.com**

**The laboratory is accredited to comply with the standard**