The Central Laboratory of the Faculty of Pharmacy of Tabriz University of Medical Sciences started working in 2018 with the aim of providing services to students, faculty members and researchers, and is a reference for analysis, quantification, control and standardization of medicinal compounds and one of the powerful arms of the University of Medical Sciences. And health care of the country is for the realization of the major goals of the medical science complex. With the aim of increasing the level of satisfaction of its clients by providing quality laboratory services, this laboratory puts the following quality policy at the forefront of its performance:

- Using qualified people in the laboratory to ensure the correct and accurate analysis

- Increasing awareness, knowledge and individual skills and motivating employees by holding and participating in training courses

- Acquaintance of all experts with quality documentation and application of implementation methods in activities related to laboratory performance.

- Continuous improvement of laboratory activities and performance

- Easy access to advanced research facilities and equipment for all those interested

In order to achieve the above goals, the central laboratory group of the Faculty of Pharmacy has designed its quality management system based on the ISO/IEC 17025 standard, and the senior management of this laboratory is obliged to provide the necessary resources and facilities to achieve the goals and meet the requirements of this standard. Improve laboratory activities. And the effectiveness of the actions taken is examined by holding management review meetings and internal audits in specific time periods.

Among the most important services provided in this unit, which are equipped with advanced equipment, are:

1- Isolation of a wide range of soluble compounds with HPLC technique

2- Reading the absorption of ELISA plates

3- Performing Spray Dryer operation on medicinal powders

4- Performing UV-VIS spectrophotometry services

5- FTIR technique to determine the molecular components of the sample

6- Production of various types of nanofibers and microfibers from solutions of polymer, ceramic, etc. materials with electrolysis technique.

7- Determining the average concentration of DNA or RNA nucleic acids with nanodrop

**Equipment List**

|  |  |  |
| --- | --- | --- |
| Model | equipment | Row |
| Knauer- Smartline UV Detector 2500 | HPLC  | 1 |
| Waters- alliance 2695 separation module | HPLC  | 2 |
| Agilent- infinity 1260 DAD | HPLC  | 3 |
| SHIMADZU UV-1800 | Spectrophotometer | 4 |
| Teif Gostar Faraz | GC-FID | 5 |
| BioTek SynergyTM HT | ELISA Reader | 6 |
| Electro farmed | dissolution | 7 |
| Mini Spray Dryer B-290 | Spray Drier | 8 |
| SilentCrusher) M) | homogenizer | 9 |
| Bandelin-sonoplus | Sonicator probes | 10 |
| Heidolph Laborota 4010 | Rotary | 11 |
| Buchi ,Vacuum Controller V-855  | Rotary | 12 |
| A&D, GR 200 | Balance | 13 |
| Elix & Rios,Milli-Q Advantage A10 | water purifier | 14 |
| Metrohm 827 pH Lab | pH meter | 15 |
| Heidolph Inkubator 1000 | incubator shaker | 16 |
| HeidolphMR Hei-Tec | hot plate | 17 |
| LG | refrigerators and freezers | 18 |
| Snijders Scientific, Binder& Nuve DF490 | -70 Freezer  | 19 |
| Centrifuge 5810 R & 5402 | refrigerated centrifuges | 20 |
| Rotor Gen Q- 6 Plex | Real time PCR | 21 |
| Thermo scientific one C | Nano drop | 22 |
| Christ Epsilon 1-4 LSCPlus | freeze dryer | 23 |
| BRUKER, Tensor 27 | ATR-FTIR | 24 |
| Scotsman/Endodis, AF80 | ice maker | 25 |
| nanoazma | اelectrospining | 26 |
| Teif Gostar Faraz | GC-FID | 27 |
| Fan Azma Gostar-FMS8 | oven | 28 |
| Bandelin | ultrasonic bath | 29 |

Students and colleagues of universities and other educational and research centers, as well as industrial and production units across the country, can send their samples by post to the address of the central laboratory along with a letter of introduction from the relevant unit or a letter of request for analysis. Obviously, in this case, after receiving the receipt for the sample analysis fee via fax or post, the results will be provided to colleagues by fax or email.

Service hours: 8:00 AM to 3:30 PM

Postal address: Tabriz- Attar Neishabouri North St., Tabriz University of Medical Sciences- Faculty of Pharmacy- Central Laboratory

PO Box 14766-51664 Phone and Fax: 0411-33348489

Necessary steps to use central laboratory services for pharmacy students

- Going to the laboratory to schedule an appointment and be on the waiting list

- Receive the analysis request form

- Completion of the analysis request form by the applicant and supervisor

- Refer to the Research Vice-Chancellor to confirm the form and obtain a work permit in the laboratory

- Delivery of the form to the laboratory and completion of the commitment form to perform laboratory work