

Academic Visit In Drug Testing Laboratory & Research Centre

Date of Visit: - 12/08/2025

Visited Laboratory: - Drug Testing Laboratory

Location: - Govt. Ayurvedic College Campus, Raipur

Visited By: - M. Pharmacy 3rd Sem. (Department of Pharmacognosy)

Purpose to Visit: - Academic exposure and to observe the functioning of a Standard drug testing laboratory.



Visit Summary: - An Academic visit to Drug Testing Laboratory and Research centre was successfully organised under the direction of Prof. S.J. Daharwal, Director, University Institute of Pharmacy, Pt. RSU Raipur (C.G.) and under supervision of Dr. Vishal Jain, Head of Department of Pharmacognosy & Phytochemistry, University Institute of Pharmacy, Pt. RSU Raipur (C.G.), and Co-Ordinated by Umakant Sahu, University Institute of Pharmacy, Pt. RSU Raipur (C.G.) on 12th August 2025. Department of Pharmacognosy Students visited to Drug Testing Laboratory & Research Centre to understand the Standard operational procedures, research activities and modern instrumentation used in the evaluation and testing of Herbal Drugs.

The Drug Testing Laboratory & Research Centre is located in campus of the Govt. Ayurvedic college Raipur (C.G.). We were entering into the Laboratory and meet with Dr. Nagendra Singh Chauhan (S.S.O. G1& Controller In charge) and his scientific team members; Arun Kumar Singh Parihar (S.S.O. Gr-2), Chandan Kumar Sahu (S.O.-Chemistry), Milind Kumar Ghore, Harekrishna Sinha (Pharmacist), Sushma Minj (Lab Technician). Dr. Chauhan has given brief introduction about Drug Testing Laboratory & Research Centre, Raipur and highlighted the importance, role and requirements of the Drug Testing Laboratory, how to identify adulteration of Herbal Drugs and how to ensure the Safety and Quality of the seized samples (Single Drugs / Formulations) received from the Drug Inspectors.

Before the start of laboratory visit, we were instructed about safety protocols and guidelines. A demonstration was provided to show how the actual testing processes are carried out. We were accompanied by Chandan Kumar Sahu (S.O.-Chemistry), who guided us through the procedures involved in the quality testing of Herbal Formulations and explained the use of different instruments for quality control.

He began by explaining how samples sent by the Drug Inspector are to be examined, like whether the samples are properly sealed, accurately labelled, and accompanied by a report application filled out by the Drug Inspector in accordance with regulatory guidelines. A committee of three members is responsible for examining the sample condition and opening of legal sample received by Drug Inspector.

After that they demonstrated about the instruments equipped in Drug Testing Laboratory, each of the instruments that are used in the testing laboratory and describe about the major role of these instruments. Quality control of herbal drug is ensured by using the instruments like Compound Microscope, Microtome, Atomic Absorption Spectroscopy, Digital pH meter, IR Moisture Balance, Muffle Furnace, Dissolution and Disintegration Apparatus, UV Spectroscopy, HPLC, HPTLC.



Conclusion: - The academic visit to the Drug Testing Laboratory & Research Centre provided valuable insights into the standard operational procedures, regulatory practices, and modern instrumentation used in the quality evaluation of herbal drugs. Students gained practical knowledge on the testing and identification of adulteration in herbal formulations, as well as the importance of safety, accuracy, and compliance with regulatory guidelines. The hands-on demonstration and expert guidance offered a meaningful learning experience, bridging theoretical knowledge with real-world applications in herbal drug analysis.

Submitted by: - Harkesh Dadsena, Pushpendra Kumar, Chhavi Rahangdale, Lokprabha Hirwani, Abhishek Nand, Bhoomika Swarnkar.
M. Pharmacy 3rd Sem. (Pharmacognosy)
University Institute of Pharmacy, Pt. RSU Raipur (C.G.)