



Sanjeevani Multipurpose Foundation's  
**Dr. Deepak Patil Ayurvedic Medical College & Research Center**

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•Affiliated to Maharashtra University Of Health Sciences, Nashik •

## Quality Testing Laboratory – Policy & Constitution

### 1. Introduction:

The quality testing laboratory at Dr. Deepak Patil Ayurvedic Medical College and Research Centre aims to provide a state-of-the-art facility for conducting quality control and research in Ayurvedic medicine. This laboratory will focus on ensuring that the Ayurvedic medicines prepared and utilized are of the highest quality, meeting the required pharmacopoeial standards. The laboratory will also support academic and research activities, enabling students and faculty to engage in comprehensive testing and evaluation as part of their coursework and research projects.

### 2. Aims and Objectives:

The primary objectives of establishing the quality testing laboratory are:

- To ensure the quality, safety, and efficacy of Ayurvedic formulations.
- To provide practical training to students in quality control methodologies.
- To facilitate research activities related to Ayurvedic formulations, herbs, and standardization.
- To foster a research culture in Rasashastra, Bhaishajya Kalpana, and Dravyaguna.
- To ensure compliance with national and international standards for Ayurvedic product testing.

### 3. Vision and Mission:

#### Vision:

To become a leading Ayurvedic quality control laboratory, known for its contribution to quality testing, standardization, and research in Ayurvedic medicines.

#### Mission:

- To provide a conducive environment for students and faculty to engage in quality testing and research.
- To ensure adherence to good laboratory practices (GLP) in Ayurvedic medicine quality control.
- To contribute to the advancement of Ayurvedic sciences through rigorous quality testing.



#### **4. Infrastructure and Architecture:**

The quality testing laboratory will be designed to meet the requirements for standard quality testing of Ayurvedic medicines. Key features will include:

**1. Independent Unit and Common Facility:** The laboratory will operate as an independent unit with designated areas for different tests while also serving as a common facility for students and faculty.

**2. Equipment and Instruments:** The laboratory will be equipped with modern instruments such as TLC (Thin Layer Chromatography), HPTLC (High-Performance Thin Layer Chromatography), UV-Visible spectrophotometer, pH meter, and other instruments essential for Ayurvedic quality control.

**3. Storage Areas:** Separate storage for raw herbs, finished products, and reagents will be maintained.

**4. Workstations:** Adequate workstations for students and staff to carry out experiments and quality control activities.

#### **5. Laboratory Committee Members and Roles:**

**1. Faculty In-Charge:** A designated faculty member from the Rasashastra Bhaishajya Kalpana or Dravyaguna department will be appointed as the in-charge of the laboratory, responsible for overall operations and ensuring compliance with testing protocols.

**2. Technical Staff:** Qualified technical staff will assist in handling equipment, preparing reagents, and conducting routine tests.

**3. Students:** Students will be assigned tasks and experiments under the supervision of the faculty in charge, gaining practical exposure to quality control methods.

**4. Research Scholars:** Postgraduate students and Ph.D. scholars will have access to the laboratory for advanced research activities.

#### **6. Roles of Members:**

##### **1. Faculty In-Charge:**

- Oversee daily operations.
- Ensure compliance with regulatory standards.
- Provide mentorship to students and staff.

##### **2. Technical Staff:**

- Manage equipment maintenance and calibration.
- Assist in conducting tests and recording results.
- Maintain laboratory cleanliness and safety.



### **3. Students and Researchers:**

- Follow testing protocols as per the syllabus.
- Conduct research under guidance.
- Prepare and submit reports on tests conducted.

### **7. Laboratory Rules and Regulations:**

- All laboratory users must adhere to safety protocols, including wearing protective gear such as gloves and lab coats.
- No unauthorized personnel are allowed in the laboratory.
- All equipment should be handled with care, and any malfunction should be reported immediately.
- Proper documentation of all tests conducted is mandatory.
- The laboratory should be kept clean and organized at all times.
- Storage areas must be properly labeled, and substances must be handled per safety guidelines.

### **8. Expected Outcomes of the Functioning:**

- 1.Enhanced Learning:** Students will gain hands-on experience in Ayurvedic drug standardization and quality control, aligning with their curriculum.
- 2. Improved Research Output:** Faculty and students will have access to necessary tools and equipment for quality research, fostering publication and development of new Ayurvedic formulations.
- 3. Quality Control Contribution:** The laboratory will play a key role in testing and certifying Ayurvedic formulations, ensuring their safety and efficacy.

### **9. Further Development and Path Ahead:**

The laboratory aims to achieve the following milestones:

- Upgrading to a NABL (National Accreditation Board for Testing and Calibration Laboratories) accredited laboratory.
- Establishing collaborations with other Ayurvedic institutions and industries for joint research and product standardization.
- Expanding the facility to conduct quality testing for external clients, such as Ayurvedic pharmaceutical companies.
- Incorporating advanced quality testing methods, including molecular and DNA-based herb authentication technologies.



## 10. Do's and Don'ts:

### Do's:

- Follow all safety and testing protocols diligently.
- Maintain accurate and detailed records of every test conducted.
- Handle all chemicals and reagents with care.
- Dispose of waste as per the biomedical waste management guidelines.

### Don'ts:

- Do not eat, drink, or smoke inside the laboratory.
- Do not operate equipment without proper training.
- Do not remove any laboratory equipment or samples without permission.
- Avoid cross-contamination by properly cleaning all instruments after use.

## 11. Standard Quality Control Laboratory in Ayurveda:

-The laboratory will follow the guidelines provided in the Ayurvedic Pharmacopoeia of India (API) and the Good Manufacturing Practice (GMP) standards outlined by the Ministry of AYUSH.

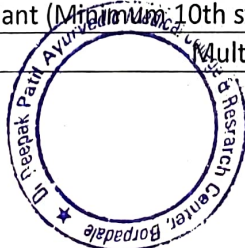
-Quality control methods will include physicochemical testing, TLC, HPTLC, microbial testing, and heavy metal analysis, ensuring that the Ayurvedic formulations are safe and effective.

## 12. Conclusion:

The establishment of a quality testing laboratory at Dr. Deepak Patil Ayurvedic Medical College and Research Centre, Borpadale, will enhance the institution's academic and research capabilities, ensure high-quality Ayurvedic product development, and foster a culture of scientific inquiry in Ayurveda. Through strict adherence to quality control protocols and fostering research activities, the laboratory will contribute significantly to the Ayurvedic healthcare system

## Quality Testing Laboratory Members

Sr. No.	Designation / Role	No. Of Posts
1.	Analytical Chemist (Bachelor of Pharmacy or Bachelor of Pharmacy in Ayurveda)	01
2.	Clerk (graduate with computer knowledge)	01
3.	Pharmacognosist	01
4.	Lab Attendant (Minimum 10th standard pass)	01
5.	Multi-tasking staff	01



**Principal**  
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