



# PATANJALI RESEARCH FOUNDATION

# TESTING SERVICES



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## Patanjali Research Foundation

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# PATANJALI RESEARCH FOUNDATION



Established in 2017, Patanjali Research Foundation is a fully integrated innovative research institute.

Patanjali Research Foundation (PRF) is a pioneer institute in the field of herbal and nutraceutical products research. PRF is a R&D based testing facility of finished goods and raw materials used in production of ayurvedic medicines.

### Accreditations/ Recognitions



National Accreditation Board for Testing and Calibration Laboratories (NABL) (ISO/IEC 17025:2017)



Department of Scientific and Industrial Research (DSIR) Scientific and Industrial Research Organizations (SIRO)



Uttarakhand Pollution Control Board



Medical Pollution Control Committee



Department of Biotechnology Review Committee on Genetic Manipulation (RCGM)



Committee for Purpose of Control and Supervision of Experiments on Animals (CPCSEA)



## ANALYTICAL CHEMISTRY



- Patanjali Research Foundation is well equipped with all the facilities required for testing and is accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) for ISO/IEC 17025:2017.
- Patanjali Research Foundation provides complete solution for testing of Ayurvedic / Herbal medicines, Food and Cosmetics to the manufacturers and their raw material supplying partners.
- In addition, we also supply reference standards and customize validation studies as per ICH Q2(R1), USP, IP etc.
- Quantification of active marker compounds by HPLC, UHPLC, GC-MS/MS, HPTLC, UV-Visible spectrophotometer.
- Fingerprinting Studies on HPTLC, HPLC, GC-MS/MS, UPLC-MS/QToF, and FT-IR.
- Characterization of marker compounds.
- Physio-chemical parameters.

Analysis of crude drugs and classical formulations for compliance to Ayurvedic pharmacopoeia Of India, Indian Pharmacopoeia, US Pharmacopoeia etc.



## KEY INSTRUMENT FACILITY

UPLC-MS/QToF [Waters, Xevo G-2 XS]

GC-MS/MS [Agilent, 7000 D]

HPLC [Shimadzu, 2030 C 3D plus]

UHPLC [Shimadzu, Prominence-XR]

HPTLC [CAMAG]

FT-IR [Agilent, Carry 630]

Muffle Furnace [Carbalite, AAF 1100]

Karl Fischer / IR moisture analyzer [Metrohm 870KF Titrino plus]

Refractometer [Labman, LMAR-1317]

Melting point Apparatus [Buchi, M-565]



## MICROBIOLOGY



Microbiology laboratory at Drug Discovery & Development Division is Biosafety Class-II category lab.

The lab is well-equipped with Air shower, Biology Safety Cabinets (Type II, Class B2), bacteriological and BOD incubators and shakers, wall mounted and vertical automated autoclave, Flexi pumps, sterilizer equipments. Apart from these, the lab is also well resourced with some advanced tools such as colony counter Scan 1200, Microscope, PCR, UV-VIS Spectrophotometer, Anaerobic chamber and etc.

### MICROBIAL PROFILING OF TEST ARTICLE INCLUDES TESTING OF

Microbial contaminants viz:

Total Aerobic Bacteria Count (TABC), Total Yeast & Mould Count (TYMC)

Test the presence of any specific pathogens viz:

E.coli, Salmonella spp. S. aureus, and Pseudomonas aeruginosa.

Mutagenic Potential (Ames Test).

In addition to microbial profiling at microbiology lab; characterization of bacterial isolates or specific pathogens by using morphological and biochemical tests. Additionally, molecular biology techniques are employed to understand the effect of various herbal extracts, formulations and Ayurvedic medicines at gene and protein levels.

## IN-VITRO BIOLOGY



We have a well-equipped and dedicated cell culture facility that maintains a high level of aseptic environment. We culture myriad of established and reporter cell lines, develop 3-D cell based disease models, isolate and maintain primary cells and utilize co-culture models for mimicking complex human diseases.

### THE DEPARTMENT IS EQUIPPED WITH THE FOLLOWING AMENITIES:

Cell culture facility with BSL-II laminar hood, hypoxia chamber, BOD chamber and CO2 incubators, upright and inverted microscope  
Flow-cytometer with imaging capability  
Instrumentation for gene expression analysis (GeneChip microarray, Nanostring®, UV/Vis spectrophotometer, PCR and RT-qPCR)  
Monochromator based multimode plate reader with dispenser facility  
Fluorescent microscope  
Instrumentation for protein expression analysis (Western and Southern-blot apparatus, chemiluminescent imager, Gel Doc, ELISA plate washer and tissue homogenizer)  
Particle size analyser, Probe sonicator and Water-bath sonicator.