

Testing Facilities at Drug Testing Laboratory

Physicochemical/ Photochemistry

- ✓ Organoleptic Characters
- ✓ pH
- ✓ Loss on Drying
- ✓ Total Ash, Acid insoluble ash
- ✓ Extractive Values – Water and Alcohol
- ✓ Extraction methods (Cold Maceration and Soxhlet method)
- ✓ Specific gravity
- ✓ Tablet Hardness, Disintegration & Friability Tests
- ✓ Refractive Index
- ✓ Bulk and Tap Density
- ✓ NPST (Nambhuri Phased Spot Test)
- ✓ Screening of Preliminary phytochemicals
- ✓ Thin Layer Chromatography (TLC)



Pharmacognosy

- ✓ Section cutting – wet & dry specimen microscopy
- ✓ Powder Microscopy
- ✓ UV Fluorescence analysis (Powder)



Microbiology

- ✓ Microbial Limit Test and Total Microbial Load
- ✓ Antimicrobial study



Stability Studies

- ✓ Accelerated stability studies as per API Guidelines

Instrumental analysis demonstration

- ✓ Rota evaporator
- ✓ UV Spectrophotometer
- ✓ Flame photometry



CONTACT DETAILS

Central Research Facility

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SHRI B. M. KANKANAWADI AYURVED MAHAVIDYALAYA

Post Graduate Studies & Research Centre, Belagavi (Karnataka)

(Approved by National Commission for Indian System of Medicine, New Delhi & M/o AYUSH, GoI)

A Constituent Unit of

KLE ACADEMY OF HIGHER EDUCATION & RESEARCH

(DEEMED-TO-BE- UNIVERSITY)

(Re-Accredited 'A +' Grade by NAAC (3rd Cycle) | | Placed under Category 'A' by MoE GoI)

Central Research Facility

(AYUSH approved
Testing Laboratory
for ASU Drugs)



Central Research Facility Ayush Approved ASU Drug Testing Laboratory

Global awareness on Ayurveda has increased tremendously in recent years. At the same time quality control & Standardization of Ayurvedic drugs have also become essential. Our Institution has established the Central Research Facility (CRF) in 2006. Our center has been approved by the Dept. of AYUSH, Govt. of Karnataka as Drug Testing Laboratory for ASU drugs. Every year around 300 raw drug samples, 250 finished products, 100 Pharmacognosy studies, 600 Microbial studies like MLT & TML, culture and sensitivity, Antimicrobial studies, and Water testing are analyzed and 500 drugs are authenticated by CRF. CRF has facilitated around 150 PG and 30 PhD studies.

Institute offers the services to Pan India researchers, pharmacies, and educational institutions for their research and quality control studies. We have been providing Stability Studies of Finished products to Pharmacies from the past 5 years. We have worked on more than 30 research domains, including Ayurgenomics, Pharmacokinetics, Cell line studies, Quality control & Standardization, Efficacy & safety studies.

To create awareness based on our experience, CRF is regularly conducting workshops/ Hands-on training programs for PG scholars and faculty members to enhance their knowledge & skills in Analytical and Experimental Techniques.

Discount Policy for Drug testing Lab

- UG/ PG/PhD/ Research scholar /Faculty of other Research /Educational Institute :** 20% Discount Applicable
- Industry and sponsored projects :** 10% Discount Applicable
- Training Services Provided:**
 - **Training Scope:** Training will be provided for the tests mentioned in the NCISM syllabus (UG/PG). Tests for raw and finished products (Dravyaguna and Rasashastra & Bhaishajya kalpana practical) can be covered in 2 days for a batch up to 100 students
 - **Training charges:**
 - * For UG Rs. 300/- per student (Demonstration) of Dravyaguna / Rasashastra practical and 500/- for both up to 100 students
 - * For PG Rs.1500/- per student (Demonstration and hands on training) up to 20 Students
 - **Scheduling:** 15 days Prior request and scheduling approval from the Drug Testing Laboratory is required.
 - **Exclusions:** Training charges do not include food and accommodation.
- Central Research Facility:**

Also provides facilities like clinical trials, Animal experimentation and incubation centre for development of technology and innovations in Ayurveda

PRICE LIST

TEST OFFERED

SL No	Physicochemical Test	Price
1.	Identification/Authentication	130.00
2.	Authentication with sectioning	1500.00
3.	Powder Microscopy	650.00
4.	TS Microscopy	1300.00
5.	Preliminary Phytochemical screening	1300.00
6.	Qualitative Inorganic screening	1000.00
7.	Thin Layer Chromatography (TLC)	400.00
8.	Foreign matter	100.00
9.	Loss on Drying/Moisture content	200.00
10.	Total Ash	250.00
11.	Acid insoluble ash	250.00
12.	Water soluble ash	250.00
13.	Sulphated ash	250.00
14.	Loss on Ignition	250.00
15.	Water soluble extractive	250.00
16.	Alcohol soluble extractive	300.00
17.	Solubility tests in different Solvents	250.00
18.	Specific gravity	100.00
19.	pH	100.00
20.	Acid Value	400.00
21.	Saponification Value	400.00
22.	Iodine Value	400.00
23.	Refractive Index	100.00
24.	Tests for Rancidity	400.00
25.	Friability Test	100.00
26.	Particle Size	300.00
27.	Total Alcohol content	500.00
28.	Total Solids	250.00
29.	Total Fat Content	500.00
30.	Tablet Disintegration Test	200.00
31.	Tablet Hardness Test	100.00
32.	Melting Point	250.00
33.	Total volatile content	400.00
34.	Resin Estimation	300.00
35.	Extrudability	100.00
36.	Qualitative test Metal each	130.00
37.	Bhasma Pariksha	100.00
38.	NPST	650.00
39.	Artificial Sugar Test	250.00
40.	Reducing sugar	1300.00
41.	Viscosity	300.00
42.	Spreadability	100.00
43.	Homogeneity	100.00
44.	Crude drug Extraction by Soxhlet Apparatus Exclusive of covalent charges	450.00

Sr No	Stability Study Charges	Price
1	Stability Study for 3 Batch	45000
2	Pilot Stability Study for 1 Batch	15000

Microbiology Unit

Sl No	Test Analysis	Price
1.	Microbial Limit test Quantitative test	1300.00
2.	Total fungal count & Total Bacterial Count	1300.00
3.	Identification of specific organism Qualitative test • P. aeruginosa • E.coli • Staphylococcus aureus • Salmonella sp	1300.00

Quantitative Analysis

SL No	Test Analysis	Price
1.	Total Flavonoids Content	1000.00
2.	Total Phenols Content	1000.00
3.	Total Proteins Content	1000.00
4.	Total Alkaloids	1500.00
5.	Total Carbohydrates	1300.00
6.	Fe (Iron)	1000.00

Antioxidant activity

7.	By DPPH method	1300.00
8.	By FRAP method	1000.00

Flame Photometry

9.	Na (Sodium)	600.00
10.	K (Potassium)	600.00
11.	Ca (Calcium)	600.00

Titrimetric

12.	Copper	1300.00
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Antibacterial Activity Test organisms –S.aureus, E.coli, S.pyogens, (Per Extract)

4.	Cup plate Method	2800.00
5.	Disk diffusion method	2800.00
6.	Minimum Inhibition Concentration (MIC)	2300.00
7.	Minimum Bactericidal Concentration (MBC)	2300.00
8.	MIC +MBC	4600.00
9.	Cup plate test + MIC	5100.00

Antifungal Activity Test Organisms-2 Candida albicans, Aspergillus spp/penicillinspp) Per Extract

10.	Cup plate Method	2300.00
11.	Disk diffusion method	2300.00
12.	Minimum Inhibition Concentration (MIC)	2300.00
13.	Minimum Fungicidal Concentration (MFC)	2000.00
14.	MIC +MFC	4300.00
15.	Cup plate + MIC	4600.00
16.	Swab Analysis	100.00
17.	Water Testing	500.00