



Progressive Education Society's

Modern College of Pharmacy (Autonomous)

Sector 21, Yamunanagar, Nigdi, Pune-411044. India.

CHARGES FOR EQUIPMENT FACILITIES (PER SAMPLE)

Sr.no	Name of Equipment	Student's (Other College)	Industry
1	Brookfield Viscometer	Rs.100/-	Rs.200/-
2	Particle Size Analyzer	Rs.500/-	Rs.800/-
3.	Freez Dryer *(per cycle)	Rs.500/-	Rs.800/-
4.	Spray Dryer *(per cycle)	Rs.500/-	Rs.800/-
5.	Rotary Evaporator	Rs.200/-	Rs.400/-
6.	Probe Sonicator *(per cycle)	Rs.100/-	Rs.200/-
7.	Dissolution Test Apparatus	Rs.500/-	Rs.1000/-

Lab In-charge
Dr. Nikita Gaikwad

HOD
Dr. Atul Phatak

Principal
Dr.P.D.Chaudhari



**P. E. Society's Modern College of Pharmacy, Nigdi, Pune 44
(Autonomous)**



Department of Pharmacognosy

Consultancy & Testing Services Offered

Isolation & Purification of Phytoconstituents

Evaluation of Phytoconstituents

1	Melting point/Boiling point
2	Optical rotation
3	Solubility
4	UV spectroscopic analysis (qualitative)
5	UV spectroscopic analysis (quantitative)
7	FTIR analysis & interpretation

Free radical Scavenging assay

1	DPPH
2	Superoxide ion
3	Ferrous ion

Extraction

1	Cold maceration
2	Soxhlet extraction
3	Decoction
4	Microwave assisted extraction
5	Ultrasonication assisted extraction



Content determination

1	Total Phenol content
2	Total flavonoid content
3	Total alkaloid content
4	Catechin content
5	In vitro α -glucosidase inhibition assay
6	Detection of adulterants in oil
7	Weighing sample (10 mg sensitivity)
8	Preparation of Herbarium

Evaluation of Skin & Hair cosmetics

Analysis of Ayurvedic formulation (According to Ayurvedic Formulary of India)

1.	pH
2.	Refractive index
3.	Specific gravity
4.	Fineness of Particle
5.	Disintegration test
6.	Uniformity of weight
7.	Friability
8.	Hardness
9.	Diameter & thickness
10.	Total solids
11.	Loss on drying (vacuum oven method)
12.	Loss on drying (110 °C)
13.	Fat content
14.	Volatile oil content
15.	Acid value
16.	Saponification value
17.	Peroxide value
18.	Alcohol content



Proximate Analysis

1	Ash Values (Total, Acid insoluble, Water soluble, Sulphated)
2	Foreign organic matter (whole drug)
3	Determination of Loss on Drying
4	Extractive values (Alcohol, Water & Pet ether)
5	Swelling index
6	Foaming index
7	Powder fineness (According to seive size)
8	Particle Size Analysis (Microscopy)
9	Macroscopy
10	Thin layer Chromatography (TLC)
11	Determination of Water
12	Determination of Essential oil
13	Determination of Fixed oil
14	Bitterness value
15	Haemolytic activity
16	Determination of tannins
17	Length & Width of Fibres
18	Determination of crude fibre

Microscopy & Histology

1	Transverse/Longitudinal section cutting
2	T.S./L.S. along with images (soft copy)
3	T.S./L.S. along with image analysis
4	Stomatal index & number
5	Palisade ratio
6	Vein-islet number
7	Vein-termination number
8	Permanent slide
9	Powder microscopy



Preliminary Qualitative Tests

1	Carbohydrates
2	Reducing sugars
3	Monosaccharide
4	Pentose sugars
5	Hexose sugars
6	Non-reducing sugars
7	Starch
8	Gums
9	Mucilage
10	Proteins
11	Amino acids
12	Fats & Oils
13	Steroids
14	Volatile oils
15	Glycosides (Cardiac Anthraquinone Saponin Cynogenetic & Coumarins)
16	Flavonoids
17	Alkaloids
18	Tannins & Phenols
19	Enzymes (Oxidase, Peroxidase, Catalase, Dehydrogenase)
20	Organic acids (Oxalic, Tartaric, Citric, Malic)

- The above-mentioned rates are tentative and may vary according to the drug sample, sample size, solvent, extraction time, process etc.
- Certificate of analysis will be provided along with the tests

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