PHARMACEUTICS DEPARTMENT

The following services are rendered to the other organizations/institutes

Sr. No.	Name of Equipment/ Instrument
1.	High Shear Homogenizer
	(T-10, T-25)
2.	Probe sonicator
3.	Spray Dryer
4.	Freeze Dryer (Lyophilizer)
5.	Brookfield Viscometer
6.	Texture Analyzer
7.	Film Former
8.	Thermolab Stability Chamber* (Accelerated Stability Studies)
9.	Fluid Bed Processor
10.	Extruder spheronizer
11.	Particle size (Horiba)
12.	Zeta Potential
13.	Antimicrobial study*

^{*}As per set procedure

Specialized Services
FORMULATION DEVELOPMENT
PREFORMULATION STUDIES

For Details Contact

researchatmcp@gmail.com

DEPARTMENT OF PHARMACOGNOSY

		Tests				
Preliminary Phytochemical Analysis						
1		Carbohydrates				
2	Reducin	Reducing sugars				
3	Monosa	Monosaccaride				
4	Pentose	Pentose sugars				
5	Hexose	Hexose sugars				
6	Non-red	Non-reducing sugars				
7	Starch	Starch				
8	Gums	Gums				
9		Mucilage				
10	Proteins	Proteins				
11	Amino a	Amino acids				
12	Fats & C	Fats & Oils				
13	Steroids	Steroids				
14	Volatile	Volatile oils				
15	-	Glycosides				
а		Cardiac glycosides				
b	-	Anthraquinone glycosides				
С		glycosides				
d		Cynogenetic glycosides				
С		Coumarins glycosides				
16 Flavonoi						
17	Alkaloid					
18 Tannins & Phenols		& Phenols				
19	Enzyme	Enzymes				
	а	Oxidase				
	b	Peroxidase				
	С	Catalase				
	d	Dehydrogenase				
20	Organic	Organic acids				
	а	Oxalic acid				
	b	Tartaric acid				
	С	Citric acid				
_	d	Malic acid				
		nging assay				
1	DPPH					
2	Superoxide	e ion				

3	Ferrous ion					
Proxim	ate Analysis					
1	Ash Values					
	а	Total Ash				
	b	Acid insoluble ash				
	С	Water soluble ash				
	d	Sulphated ash				
2	Foreign organic matter (whole drug)					
3	Determination of Loss on Drying					
4	Extractive values					
	а	Alcohol soluble matter				
	b	Water soluble matter				
	С	Petroleum ether soluble matter				
5	Swelling index					
6	Foaming index					
7	Powder fineness (According to sieve 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 Fibers					
18	Determination of crude fiber					
Solvent	Extraction	n				
1	Cold maceration					
2	Soxhlet extraction					
3	Decoction					
	copy & His					
1		se/Longitudinal section cutting				
2		along with image (soft copy)				
3		along with image analysis				
4		index & number				
5	Palisade i					
6	Vein-islet					
7	Vein-termination number					
8	Permanent slide					

9	Powder microscopy				
Authent	hentication of whole plant				
Preparation of Herbarium					
Evaluation of Ayurvedic Formulation					
1	рН				
2	Refractive index				
3	Specific gravity				
4	Fineness of Particle				
5	Disintegration test				
6	Uniformity of weight				
7	Total solids				
8	Loss on drying (vacuum oven method)				
9	Loss on drying (110 °C)				
10	Fat content				
11	Volatile oil content				
12	Acid value				
13	Saponification value				
14	lodine value				
15	Alcohol content (without volatile matter)				
16	Alcohol content (with volatile matter)				
Isolation of Phytoconstituents					
	tion of Phytoconstituents				
Evaluat	ion of Phytoconstituents				
1	Melting point/Boiling point				
2	Optical rotation				
3	Solubility				
4	UV spectroscopic analysis (qualitative)				
5	UV spectroscopic analysis (quantitative)				
6	FTIR analysis & interpretation				
	ion of Skin & Hair cosmetics				
	t 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 of sample (10 mg sensitivity)				

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