



DRUG ANALYSIS AND DEVELOPMENT CENTRE (DADC)
Manipal College of Pharmaceutical Sciences (MCOPS)
Manipal Academy of Higher Education (MAHE), Manipal 576104, Karnataka

SERVICES AND CHARGES

Contact: Principal, MCOPS, MAHE, Manipal 576104
Phone: +91 820 2922482; Email: office.mcops@manipal.edu

Test Code	Test Details	Charges (INR)* per Sample (*Service tax extra)	
		Industry	Academia
Department of Pharmaceutical Chemistry			
PCH1	GC-Qualitative	2,000=00	600=00
PCH2	HPLC-Qualitative	2,000=00	600=00
PCH3	HPLC-Method Development	50,000=00	15,000=00
PCH4	UV Spectroscopy-Qualitative	200=00	100=00
PCH5	UV Spectroscopy-Method Development	3,000=00	1,000=00
PCH6	FTIR Spectroscopy	500=00	250=00
PCH7	TLC	1,000=00	500=00
PCH8	Ash Value	1,000=00	500=00
PCH9	Sugars per test per sample	300=00	300=00
PCH10	Saponification Value	300=00	300=00
PCH11	Iodine Value	300=00	300=00
PCH12	Acid Value	300=00	300=00
PCH13	Total Solids	300=00	300=00
PCH14	Extractive Values	750=00	500=00
PCH15	Water Testing	2,000=00	1,000=00
PCH16	Formulation analysis by Titrimetry	300=00	300=00
PCH17	Alcohol Content	150=00	150=00
PCH18	Refractive Index	150=00	100=00
PCH19	Specific Gravity/Density	150=00	100=00
PCH20	pH measurement	150=00	150=00
PCH21	Chemical Identification Test – per class	250=00	150=00
PCH22	Boiling Point	150=00	100=00
PCH23	Metal ion – qualitative	150=00	150=00
PCH24	Loss on Drying	150=00	150=00
PCH25	Poison Testing	250=00	200=00
PCH26	Monograph Analysis	5000=00	2000=00
PCH27	Glass Apparatus Fabrication/Repair	On case to case basis	
PCH28	Computational services for Drug Design	On case to case basis	
PCH29	Cyclic Volta meter Measurement	250=00	200=00



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		Industry	Academia
Department of Pharmacology			
PHA1	Flow Cytometry-for processed sample	---	2000=00
PHA2	MTT-Cell Viability Assay (for the available Cell line with MCOPS)	---	1500=00
PHA3	Flow Cytometry-Cell Cycle Analysis (only for MCF-7 and HCT-116)	---	2000=00
PHA4	Western Blotting running charges per plot	---	50,000=00
PHA5	Acute Toxicity as per OECD guidelines (not as per GLP standards)	---	35,000=00
PHA6	Antiinflammatory Acute Study with 3 dose	---	80,000=00



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Test Code	Test Details	Charges (INR)* per Sample (*Service tax extra)	
		Industry	Academia
Department of Pharmaceutics			
PCE1	Particle size-nanometer scale by Malvern Zetasizer (includes zeta potential)	1000=00	400=00
PCE2	Particle size-micrometer scale by QBIDEX Scatteroscope I	1000=00	400=00
PCE3	Viscosity measurement by Brookfield Viscometer (up to 30 thousand CPS only)	1000=00	400=00
PCE4	DSC Analysis	1,000=00	500=00
PCE5	FTIR Spectroscopy	500=00	250=00
PCE6	Hot melt extruder (HME)	1,500=00 per batch	500=00 per batch
PCE7	Analysis of biological samples	400=00 (600=00 if any approval is required)	200=00 (300=00 if any approval is required)
PCE8	HPLC analysis	2000 per sample (up to 4 injections)	1000 per sample (up to 4 injections)
PCE9	HPLC analytical method development/ validation (Qualitative)	This may be considered a separate study; contact the Principal, MCOPS, for the quote by giving study details.	
PCE10	HPLC analytical method development & validation (Quantitative)	This may be considered a separate study; contact the Principal, MCOPS, for the quote by giving study details.	
PCE11	Preclinical Pharmacokinetics Studies	This may be considered a separate study; contact the Principal, MCOPS, for the quote by giving study details.	



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Test Code	Test Details	Charges (INR)* per Sample (*Service tax extra)	
		Industry	Academia
Department of Pharmacognosy			
PCO1	Phytochemical Evaluation-Moisture content	750=00	500=00
PCO2	Phytochemical Evaluation-Ash value /method/sample	--	500=00
PCO3	Phytochemical Evaluation Ext. value/ method/sample	--	500=00
PCO4	<i>In vitro</i> Antioxidant Studies-DPPH	--	500=00
PCO5	<i>In vitro</i> Antioxidant Studies-ABTS	--	500=00
PCO6	<i>In vitro</i> Antioxidant Studies-Orthophenol	--	500=00
PCO7	<i>In vitro</i> Antioxidant Studies-Total antioxidant	--	500=00
PCO8	<i>In vitro</i> Antioxidant Studies- H ₂ O ₂	--	500=00
PCO9	Anatomical Studies and Photo documentation per sample	--	1,000=00
PCO10	Phytochemical Screening	--	2,500=00
PCO11	Lyophyllization of Herbal Ext.	--	2,000=00
PCO12	HPTLC Analysis-Finger print	2,500=00	1,500=00
PCO13	HPTLC Analysis-Finger print with Marker	2,500=00+ Marker cost	1,500=00+ Marker cost
PCO14	HPTLC Analysis-Method Development and Validation	50,000=00 Plus 1000=00 per validation sample.	15,000=00 Plus 300=00 per validation sample.



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Test Code	Test Details	Charges (INR)* per Sample (*Service tax extra)	
		Industry	Academia
Department of Pharmaceutical Quality Assurance			
PQA1	GC-Qualitative	2,000=00	600=00
PQA2	GC-Method Development	50,000=00	15,000=00
PQA3	GC-Validation of Method per sample	1,000=00	300=00
PQA4	HPLC-Qualitative	2,000=00	600=00
PQA5	HPLC-Method Development	50,000=00	15,000=00
PQA6	HPLC-Validation of Method per sample	10,000=00	3000=00
PQA7	HPLC-Quantitative analysis (per sample)	2,000=00	1,100=00
PQA8	HPTLC-Method Development	50,000=00	15,000=00
PQA9	HPTLC-Validation of Method per sample	2,000=00	1,100=00
PQA10	UV Spectroscopy-Qualitative	200=00	100=00
PQA11	UV Spectroscopy-Method Development	3,000=00	1,000=00
PQA12	UV Spectroscopy- Validation of Method per sample	100=00	50=00
PQA13	Florescence Spectroscopy-Qualitative	250=00	150=00
PQA14	Florescence Spectroscopy-Method Development and validation	10,000=00	5,000=00
PQA15	Florescence Spectroscopy- Quantitative analysis (per sample)	1000=00	500=00
PQA16	DSC	1,000=00	500=00
PQA17	FTIR Spectroscopy	500=00	250=00
PQA18	TLC	1,000=00	500=00
PQA19	Ash Value	1,000=00	500=00
PQA20	Sugars per test per sample	300=00	300=00
PQA21	Saponification Value	300=00	300=00
PQA22	Iodine Value	300=00	300=00
PQA23	Acid Value	300=00	300=00
PQA24	Total Solids	300=00	300=00
PQA25	Extractive Values	750=00	500=00
PQA26	Moisture Content by Karl Fischer method	750=00	500=00
PQA27	Water Testing	2,000=00	1,000=00
PQA28	Formulation analysis by Titrimetry	300=00	300=00
PQA29	Alcohol Content	150=00	150=00
PQA30	Refractive Index	150=00	150=00
PQA31	Specific Gravity/Density	150=00	150=00



MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES
MANIPAL
(A constituent unit of MAHE, Manipal)

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PQA32	pH measurement	150=00	150=00
PQA33	Chemical Identification Test – per class	150=00	150=00
PQA34	Weight Variation Test	150=00	150=00
PQA35	Tablet Hardness	150=00	150=00
PQA36	Disintegration Test	150=00	150=00
PQA37	Viscosity	150=00	150=00
PQA38	Boiling Point	150=00	150=00
PQA39	Metal ion – qualitative	150=00	150=00
PQA40	Loss on Drying	150=00	150=00
PQA41	Dissolution Testing-Official method	2,500=00	1,500=00
PQA42	Dissolution Testing-Official method is not available	7,000=00	4,000=00
PQA43	MS – Spectra Simple Matrix	3,000=00	2,000=00
PQA44	MS – Spectra Complex Matrix	5,000=00	3,000=00
PQA45	LCMS – MS method development and Validation	2,00,000=00	50,000=00



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		Industry	Academia
Department of Pharmaceutical Biotechnology			
PBT1	Antioxidant Assays (DPPH/ABTS/Nitric Oxide/Alkaline DMSO)-One method	750=00	500=00
PBT2	Antioxidant Assays (DPPH, ABTS, Nitric Oxide, Alkaline DMSO)-Four methods	2,000=00	1,500=00
PBT3	Antioxidant assay using cell lines (DCFH-DA) per compound per cell line (at least two samples)	5000.00	2000.00
PBT4	Determination of Minimum Inhibitory Concentration (MIC as per CLSI guidelines) Per compound/ organism (against one organism available in the department)	500/-	400/-
PBT5	Antibacterial and Antifungal studies (against two Gram +ve and two Gram -ve bacteria, two fungi and one yeast, available in the department) by Agar diffusion method (sensitivity) (Rs 250/- sample/ organism)	3500.00	1750=00
PBT6	Cytotoxicity Studies (MTT, SRB Assays) one Assay, one available cell line, one compound	2,250=00	1,250=00
PBT7	Nuclear staining studies for one compound, one available cell line and one dye (Per sample two images)	2,500=00	2,000=00
PBT8	DNA Fragmentation Assay (One compound, one available cell line)	3,500=00	3,000=00
PBT9	PCR (with DNA sample and primer sequence is to be provided by the customer)	6,000=00	5,000=00
PBT10	Determination of microbial limit (As per IP) per sample. (If any inhibitory medicament is present, the charges will be decided upon discussion)	3000.00	2500.00
PBT11	Sterility test (direct inoculation method) (As per IP) per sample. (If any inhibitory medicament is present, the charges will be decided upon discussion)	1200.00	1000.00
PBT12	Microbial assay of antibiotics by tube dilution/ Agar diffusion assay	3500/-	2000/-