



भारतीय समवेत औषध संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
नहर मार्ग, जम्मू तवी-१८० ००१ (भारत)

CSIR- INDIAN INSTITUTE OF INTEGRATIVE MEDICINE

(Council of Scientific & Industrial Research)

Canal Road, Jammu-Tawi-180 001(INDIA)

PRICE LIST

PK-PD-TOXICITY

S.No	Detail of Technical service	Price
Pharmacokinetic/ADME Studies		
1	Pharmacokinetics study of drugs /drug like test compounds	Rs. 50,000.00 per route ie oral,i/v and i/p)
2	Bioanalytical method development and validation study	Rs 1,00000.00
3	Protein binding	Rs. 15,000.00
4	PAMPA study	Rs. 15,000.00
5	Metabolic stability	Rs. 60,000.00
6	Organ Distribution Study	Rs. 1,25000.00
Toxicity study (Rodents, Non-GLP)		
7	Acute (14 days) Toxicity (Rat/mouse)	Rs. 50,000.00
7 (i)	Sub-acute (28 days) Toxicity (Rat/mouse)	Rs. 4,00000.00
7 (ii)	Sub-chronic (90 days) Toxicity (Rat/mouse)	Rs. 5,00000.00
7 (iii)	Chronic (180 days) Toxicity (Rat/mouse)	Rs. 10,00000.00
7 (iv)	Reproductive Toxicity Study (Rat/mouse)	Rs. 5,00000.00
7 (v)	Prenatal Developmental Study (Rat/mouse)	Rs. 5,00000.00
8	Safety Pharmacology study (Rat/mouse)	Rs. 5,00000.00
Biological Evaluation Studies		
9	Anti-inflammatory (Carragean)	
9 (i)	Acute Single Dose	Rs. 5000.00
9 (ii)	Multiple Doses	Rs. 10000.00
10	Anti-arthritic Activity	
10 (i)	Mycobacterium induced Arthritis (Three Doses)	Rs. 40,000.00
11	Analgesic Activity	
11 (i)	Hot Plate Method	Rs.5000.00
11 (ii)	Writhing Method	Rs. 5000.00
11 (iii)	Paw Lick Method	Rs. 5000.00
12	Antipyretic Activity	
12 (i)	Yeast induced Pyrexia	Rs. 5000.00
13	Anti-ulcer Activity	
13 (i)	Pyloric Ligation Method	Rs. 5000.00
13 (ii)	Alcohol induced Ulceration	Rs. 5000.00

13 (iii)	Drug induced Ulcer	Rs. 5000.00
14	Anti-diabetic Activity	
14 (i)	Acute	Rs. 5000.00
14 (ii)	Streptozotocin induced diabetes	Rs. 25,000.00
15	Hepatoprotective Activity	
15 (i)	Against CCl ₄ (Single Dose)	Rs. 10,000.00
	Against CCl ₄ (Multiple Doses)	Rs. 15,000.00
15 (ii)	Against Paracetamol (Single Dose)	Rs. 10,000.00
	Against Paracetamol (Multiple Doses)	Rs. 15,000.00
16 (iii)	Against Galactosamine (Single Dose)	Rs. 20,000.00
	Against Galactosamine (Multiple Doses)	Rs. 30,000.00
16 (iv)	Against Alcoholic Hepatitis	Rs. 50,000.00
17	Pre-clinical intravenous formulation for pharmacokinetic and other animal studies	Rs. 1,00,000.00
18	Pre-clinical oral formulations for pharmacokinetic and other animal studies	Rs. 1,00,000.00
19	Solubility determination of drug/discovery lead	Rs. 50,000.00
20	Partition coefficient determination of drug/discovery lead	Rs. 50,000.00
21	Preparation and evaluation of pre-clinical powder dosage form	Rs. 1,00,000.00
22	Preparation of pre-clinical semisolid dosage form	Rs. 1,00,000.00
23	Thermodynamic equilibrium solubility in water, PBS (pH 7.4), SGF (pH 1.2) and SIF (pH 6.8)	Rs. 10,000 per sample (sample requirement = 10 mg)
24	Solubility of compound in different co-solvents	Rs. 2,500 per co-solvent per sample
25	Determination of Log P (partition coefficient)	Rs. 2,500 per sample (sample requirement = 2.5 mg)
26	Determination of Log D (distribution coefficient)	Rs. 2,500 per sample (sample requirement = 2.5 mg)
27	Determination of pKa (dissociation constant)	Rs. 8,000 per sample (sample requirement = 2.5 mg, only ionizable compounds can be analyzed)
28	Solution state stability at physiological pH 1.2-7.4	Rs. 10,000 per sample
29	Solution state stability in biorelevant media namely SGF (pH 1.2), SIF (pH 6.8) and in plasma	Rs. 10,000 per sample
30	Formulation development botanical extracts and analysis of	Rs. 30,000 – Rs. 50,000

	developed formulations – solid dosage forms at lab scale	(may vary based on the nature of extract. The exact price will be decided after further discussion).
31	Preparation of ointments / creams and its analysis – Lab scale (up to 20 g scale)	Rs. 30,000 – Rs. 50,000 (price may vary and the exact price will be decided after further discussion)
32	<p>Anti Wrinkle (photoaging) activity.</p> <p>Cytotoxicity/Cytotoprotection</p> <ul style="list-style-type: none"> • Collagen content • Matrix Metalloproteinase (MMPs) • TGF-β • Tissue inhibitors of Metalloproteinases (TIMPs) • Hyaluronidase inhibition (Enzymatic assay) • Intracellular ROS/Oxidative stress assays • Pro-inflammatory cytokines • Anti-oxidant activity 	Rs 3.5 Lacks/sample
33	<p>Melanogenesis process.</p> <ul style="list-style-type: none"> • Tyrosinase inhibition assay (Enzymatic) • Tyrosinase inhibition assay (Cellular) • Melanin synthesis in melanocytes • Melanocyte proliferation • Melanin synthesis pathway studies • In vivo melanin induction/inhibition studies 	Rs. 5,00000.00/sample
34	<p>Skin Cancer Biology.</p> <ul style="list-style-type: none"> • <i>In vitro</i> anti-cancer screening studies of test substances • <i>In vivo</i> skin cancer models induced by UV – irradiation 	Rs. 5,00000.00/sample
35	<p>Mechanistic Studies.</p> <p>Exploring the mechanism of action of test substances using state of art biochemical and molecular biology techniques.</p> <p>(The major signaling pathways will be explored for deciphering the possible ameliorative effects of the test compounds. To delineated the molecular mechanisms involved in the UV-B -mediated inflammatory</p>	Rs. 10,00000.00/sample

and apoptotic response in *In vitro* and *In vivo* models, the test substances will be studied for inhibition of UV-B -mediated increase in intracellular reactive oxygen species (ROS) and down-regulation of the release of pro-inflammatory cytokines interleukin viz a viz IL-1 α , IL-1 β and IL-6, tumor necrosis factor (TNF)- α , and prostaglandinE2 (PGE2). The test substance mediated inhibition of UV-B -mediated activation of p38 and JNK MAP kinases, COX-2 expression and nuclear translocation of NF- κ B will be studied. Test Sample mediated -inhibition of UV-B -induced apoptosis by attenuating cytosolic proteins to mitochondria and vice versa, thus preserving mitochondrial integrity. In *In vivo* models, topical application of test samples on the dorsal skin of animals exposed to UV-B -irradiation against epidermal hyperplasia, lymphocyte infiltration will be studied by histopathology. And expression of several inflammatory proteins, p38, JNK, COX-2, NF- κ B, and ICAM-1 will be performed by western blotting/RT-PRCT.

Based on the signaling pathways, we can decipher the mechanistic approach of a test substance that can protect against UV-B -mediated photo damage by inhibiting the signaling cascades triggered by oxidative stress, including MAPK/ NF- κ B activation, as well as apoptosis.

*** All the above rates are calculated excluding Goods and Services Tax (GST). GST is as per GOI rules**