



Partnering your Research

Accreditation



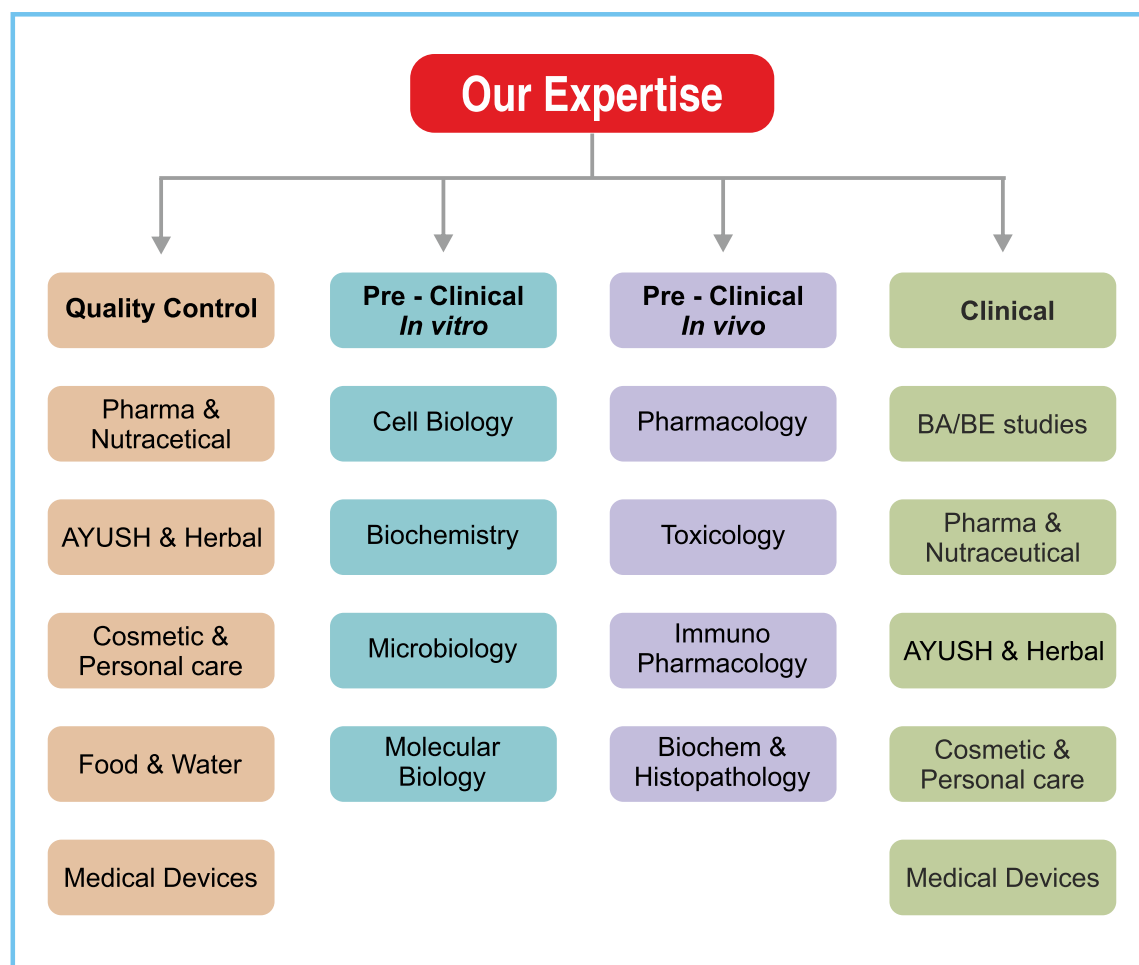
Radiant Research Services Pvt. Ltd. is a Contract Research Organization (CRO) offering research services in the field of Drug discovery, Product development, Pre-clinical and Clinical research. We are equipped with best in class facilities and expertise in the area of cell biology, biochemistry, microbiology, molecular biology, phytochemistry, pharmacology & clinical trials.

In the pursuit of excellence, we provide flexible, customized and cost effective end-to-end services to

- ◆ Pharmaceutical
- ◆ Cosmetic
- ◆ Medical devices
- ◆ Water
- ◆ Nutraceutical
- ◆ Ayurveda
- ◆ Herbal
- ◆ Food

Why Us?

- ◆ We are ISO 9001:2015 & NABL (ISO 17025:2005) accredited, AYUSH certified testing Laboratory.
- ◆ Competent staff, reliable, repeatable, accurate, consistent and traceable results
- ◆ Cost effective, time bound, value added customized End-to-End services
- ◆ Availability of large collection of cell and microbial cultures to meet the customer needs.
- ◆ We listen, understand and deliver your research needs





Quality Control



At Radiant Research, we offer quality and time bound testing services ranging from physicochemical to biological safety profiling as per national and international regulations.

We are committed towards continual service improvement and customer satisfaction to provide quality products and to be an integral part in improving the standards of human health.

Our Drug Testing Lab is one of the best in its class offering complete range of quality control services

 ◆ Pharmaceuticals ◆ Cosmetic ◆ Personal care	 ◆ Raw material ◆ AYUSH ◆ Herbal extracts	 ◆ Consumer care ◆ Food & Water ◆ Medical devices	 ◆ Formulations ◆ Finished products ◆ Nutraceutical
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Our facility is

1. ISO 9001:2015 certified
2. NABL (ISO17025:2005) accredited
3. Dept. of AYUSH, Govt. of Karnataka approved.

Radiant Research Services Pvt. Ltd.

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Physicochemical Tests

- Determination of pH
- Moisture Content Analysis (LOD)
- Disintegration
- Dissolution
- Melting point
- Marker analysis by HPLC
- Friability
- Hardness
- Stability Studies (Real time and Accelerated)
- Bulk density and Tap Density
- Viscosity Measurements
- Determination Ash Value
- Weight Variation
- Sieve Analysis
- Refractive Index
- Thickness
- Limit Tests
- Titrations

Microbial analysis

- Microbial Analysis (TMC and TFC)
- Most Probable Number (MPN)
- Specific pathogen detection
- Preservative efficacy testing (PET)
- Microbiological assay of antibiotics
- Sterility testing
- Bacterial Endotoxin Test (BET)
- Water analysis

Others

- Glucose oxidase and Lactoperoxidase determination
- Analysis of products for Gliadin, Aflatoxins, mycotoxins etc

Product Safety Tests

- Pyrogen testing
- Acute oral Toxicity
- Acute Dermal toxicity
- Acute ocular toxicity
- Acute inhalation toxicity
- Repeat-Dose Toxicity Studies (Sub-cute/Subchronic/Chronic)
- Skin sensitization
- Skin Irritation study

Pharmacognostic Services

- Physicochemical analysis (ash values, moisture content, minerals content, extractive values etc)
- Fluorescence analysis
- Microscopic study (TS, powder study, vein lets, vein termination, stomatal index etc)
- HPTLC and HPLC fingerprinting
- GCMS library Data

Phytochemistry Services

- Extraction of raw materials with different methods
- Phytochemical analysis
- Isolation and characterization of phytoconstituents
- Bioassay guided isolation and characterization for a specific activity (diabetes, antioxidants, antimicrobial etc)



Pre-clinical In vitro



Radiant Research with its state of the art Cell biology, Molecular biology and Microbiology facilities is offering exclusive range of cruelty free *In vitro* research services as an alternative to animal models to fasten the drug discovery process in a cost effective manner.

Our repository is equipped with more than 60 cell lines and 50 microbial cultures to give our clients a better choice in designing their research activities in customized manner.

In cosmetics & personal care products, we are up to the recent advancements like reconstructed human skin models (EpiSkin, SkinEthic and EpiDerm) to evaluate the safety and efficacy.

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- ◆ Anti microbial
 - ◆ Anti viral
 - ◆ Cytotoxicity
 - ◆ Cell proliferation
 - ◆ Cancer
 - ◆ Diabetes
 - ◆ Hepatoprotection
 - ◆ Obesity
 - ◆ Immunomodulatory
 - ◆ Inflammation

- 
- ◆ Hypercholesterolem
 - ◆ Arthritis
 - ◆ Osteoporosis
 - ◆ Benign prostatic Hyperplasia
 - ◆ Spermatogenesis
 - ◆ Allergy
 - ◆ Antitussive
 - ◆ Drug permeability (CaCo-2 cell model)

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- ◆ Gene expression analysis
 - ◆ Enzyme and Immunoassays (ELISA)
 - ◆ Skin Lightening
 - ◆ Sun Protection Factor (SPF)
 - ◆ Anti-aging
 - ◆ Skin tightening
 - ◆ Psoriasis
 - ◆ Scar/wound healing

- 
- ◆ Anti-acne
 - ◆ Anti-Dandruff
 - ◆ Deodorant
 - ◆ Skin Moisturizing
 - ◆ Skin pigmentation
 - ◆ Hair growth/anti-hair fall
 - ◆ Dermal permeation /absorption using
 - ◆ EpiSkin TM/Epiderm TM /Porcine skin

Toxicity/safety studies

- 3T3 NRU phototoxicity (Skin irritation)
- Skin Irritation studies in human reconstructed skin models (EpiSkin, SkinEthic etc)

Genotoxicity

- AMES test (BRMT)
- Chromosomal aberration in CHO-K1 cells

Cancer

- Cytotoxicity assay by MTT/SRB/Trypan blue
- Clonogenic assay
- Apoptosis – Nuclear staining with DAPI
- Alkylating activity assay
- TUNEL assay
- Endonuclease assay
- DNA fragmentation analysis / DNA ladder assay
- Cancer specific gene expression analysis
- (P53, Bcl2, Caspase 3, VEGF, cyclin D1, cyclin B1, STAT3 etc.)

Antioxidant

- DPPH scavenging assay
- Scavenging of Nitric Oxide radical
- Lipid peroxidation inhibitory activity
- Evaluation of Total Antioxidant capacity
- Ferric ion reducing power assay
- Scavenging of Hydroxyl Radical by p-NDA
- Method Scavenging of Hydrogen Peroxide
- Scavenging of ABTS radical cation Assay
- Total Phenolic and Flavonoid content estimation

Diabetes

- Glucose uptake studies in skeletal muscle cell lines (Non-radio labeled assay)
- Glucose uptake in isolated rat hemi diaphragm
- Gene expression studies (PPAR γ , GLUT-4 etc)
- Alpha-Amylase inhibitory activity
- Alpha-galactosidase inhibitory activity
- Alpha-glucosidase activity

Immunomodulatory and Inflammation

- Phagocytic assay on cellular lysosomal enzyme activity
- Proliferation assay
- NO and TNF inhibitory studies
- HRBC membrane stabilization
- Inhibition of protein denaturation
- Proteinase inhibitory action
- Analysis of markers like COX-1, COX-2, PGE-2, iNOS, IFN-alpha, IFN-gamma, TNF-alpha, Interleukin (IL)-1, IL-10, IL12, IL-18 etc.

Hepatoprotective

- Hepatoprotective study against selected toxicant.
- Hepatoprotective study in isolated primary rat hepatocytes. Gene expression (CYP3A4, CYP2D6 etc)

Obesity

- Anti adipogenesis studies in 3T3L-1 pre adipocytes by Oil Red-O staining
- Cell triglyceride assay
- Gene expression studies (PPAR-gamma, SREBF etc)

Anti-infectives

- Anti microbial activity by Zone of inhibition
- Anti microbial activity by MIC determination
- Anti viral studies

Cardioprotective

- Cardio-protective activity against doxorubicin induced cell damage

Skin care

- Antioxidant study
- Cytoprotective effect against UV induced cell damage
- Evaluation of protective role against photoaging
- Modulatory effect on collagen biosynthesis in dermal fibroblast
- Evaluation in modulatory effect on collagen, elastin and MMP-9 gene expression in dermal fibroblast
- Evaluation of modulatory effect on AQP-3, p53, collagen and elastin gene expression in keratinocytes

Hair Care

- Anti-dandruff studies against *M. furfur* and *C. albicans* Cell proliferation assay
- Evaluation modulatory effect on 5 α reductase, collagen, laminin, IL-8, SHH gene and ECM

Nephro Protective

- Nephroprotective activity in renal cell line against hydrogen peroxide/ acetaminophen induced cell damage

Wound healing

- Effect on cell migration by scratch model in fibroblasts. Evaluation of modulatory effect on IL-6, IL-8 and MMP-2 gene expression.

Anti-Ulcer

- Inhibitory study against *H. pylori*

Neuro-Protective

- Cytoprotective properties against H₂O₂ induced stress in rat Glial cells.
- *In vitro* Neuro-protective activity in retinal ganglion cells.
- Cytoprotective study against Hydroquinone induced cell damage.



Pre-Clinical In vivo



RADIANT
RESEARCH

Radiant Research with its strong preclinical background offers animal based (*In vivo*) customised research services to evaluate the efficacy and safety of lead drugs/formulations before proceeding for clinical trials in humans.

We offer customized preclinical efficacy and toxicology services to Pharma, Herbal, Ayurvedic, Nutraceutical, Food and Cosmetic industries.

At Radiant Research, Animal house is as per CPCSEA standards with efficient AHU, separate breeding and experimentation areas along with dedicated in-house biochemistry and histology facility.

- ◆ Diabetes
- ◆ Cancer
- ◆ Spermatogenesis
- ◆ Weight management
- ◆ Inflammation and immunomodulatory
- ◆ Toxicology
- ◆ Osteoporosis

- ◆ Benign prostatic hyperplasia
- ◆ Physical endurance
- ◆ Anti sera production
- ◆ Anti-oxidant
- ◆ Hepatoprotective
- ◆ Hypercholesterolemia
- ◆ Arthritis

- ◆ Obesity
- ◆ Allergy
- ◆ Antitussive
- ◆ Anti-infective
- ◆ Psoriasis
- ◆ Anti-aging
- ◆ Skin tightening
- ◆ Scar/wound healing

- ◆ Anti-acne
- ◆ Anti-dandruff
- ◆ Skin-moisturizer
- ◆ Skin pigmentation
- ◆ Hair growth/anti-hair fall
- ◆ Dermatological Testing

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Cancer

- DLA/EAC induced ascetic tumor model
- DLA induced solid tumor model in mice

Antioxidant

- Antioxidant status in rats by hepatic injury model
- Antioxidant status in tumor bearing mice model

Diabetes

- Alloxan induced diabetic rat model
- Streptozotocin induced diabetic rat model
- High fat diet induced diabetes

Immunomodulatory & Inflammation

- Carbon clearance assay model Cellular
- Immune Response Model
- Humoral Immune Response Model
- Neutrophil Adhesion Test Model
- Radiant heat method
- Tail immersion test
- Writhing test
- Paw edema mode
- Oxazolone-induced ear edema in mice

Hepatoprotective

- Hepatoprotective study against selected toxicant in rats/mice

Anti-infectives

- Different wound healing models in mice/rats

Obesity

- Triton induced hyperlipidemia model in mice/rats
- Cocktail induced hypercholesterolemia model

Anti-ulcer

- Stress induced ulcer model in rats
- Ethanol induced ulcer model in rats
- Aspirin induced ulcer model in rats
- Pylorus ligation model in rats

Wound healing

- Excision wound healing model

Nephro-protective

- Evaluation of the potential of the test substance against acetaminophen induced Nephrotoxic rat model
- Ethylene glycol induced Urolithiasis in rats
- Anti-lithiatic activity in rats

Cardioprotective

- Isoproterenol induced myocardial infraction in rats

Weight management

- Weight management study against high fat diet (HFD) induced mice using treadmill exercise.
- Hyperlipidemia activity induced by cholesterol in rats.
- Triton induced Hyperlipidemia model in mice/rats
- Cocktail induced hypercholesterolemia model

Toxicology

- Acute oral Toxicity
- Acute Dermal toxicity
- Acute ocular toxicity
- Acute inhalation toxicity
- Repeat-Dose Toxicity Studies (Sub-acute / Subchronic/Chronic)
- Skin sensitization
- Skin Irritation study
- Chromosomal aberration in CHO-K1 cells
- Micronucleus assay
- Specific organ toxicity
- Reproductive toxicity
- Histopathology



Clinical Research



We conduct Phase 1 to 4 clinical trials whilst maintaining the highest standards of ethics, quality and confidentiality.

We have successfully conducted clinical trials on products from natural origin, nutraceuticals etc to our domestic and foreign clients.

Radiant Research works with a wide network of hospitals, doctors from multiple disciplines & large patient pool and has turned out to be client's one point destination in developing their products from bench to bedside.

We are equipped with

- ◆ Full range of in-house SOPs and SOP writing to adapt to sponsor / protocol requirements.
- ◆ Integrated Project management system to maintain highest ethical standards & safety of the subjects
- ◆ Dedicated and experienced clinical research team
- ◆ Fully integrated clinical trial laboratory and coordination with other laboratories
- ◆ Proactive approach at each stage of the trial to address the client's requirements

Our key Services Include

- ▶ Feasibility & Regulatory approvals.
- ▶ Medical Writing
- ▶ Project Management
- ▶ Clinical trial and Site management
- ▶ Clinical Trial Monitoring
- ▶ Clinical Data Management
- ▶ Biostatistics

- ◆ BA/BE
- ◆ Safety Studies
- ◆ Dermal Safety
- ◆ Efficacy Studies
- ◆ Consumer care

- ◆ Medical devices
- ◆ Pharmaceutical
- ◆ Cosmetic
- ◆ Nutraceutical
- ◆ AYUSH / Herbal



RADIANT
RESEARCH

CELL BIOLOGY

Cancer, Diabetes, Hepatoprotection, Obesity, Immunomodulatory & Inflammation, Drug permeability (CaCo-2 model), Gene expression analysis, Neuroprotective, Nephroprotective, Stress induced studies, Cardioprotective, Cognitive/memory study, Immunobooster, Ocular studies ,

Skin lightening & tightening, Sun Protection factor, Anti-aging, Psoriasis, Scar/wound healing, Deodorant, Skin moisturizing, skin pigmentation, Hair growth, Anti-hair fall, Dermal permeation / absorption using EpiSkin TM/ Epiderm TM/Porcine skin

MICRO BIOLOGY

Microbial load, Anti-microbial, PET analysis, TIME KILL assay, BET, Anti-Viral, Anti-acne, Anti-dandruff, Deodorant, Anti-ulcer, Pro-biotic activity, Culture characterization Microbial Analysis (TMC and TFC), MPN, Specific pathogen detection,

DRUG TESTING

Marker analysis by HPLC, Friability, LOD, Stability Studies (Real time & Accelerated), Bulk density & Tap Density, Viscosity Measurements, Pyrogen testing, Microbial Analysis (TMC & TFC), MPN, Specific pathogen detection, PET, BET, Water analysis, sterility testing, Microbiological assay of antibiotics, Titrations,

PHARMA COLOGY

Cancer, Antioxidant, Diabetes, Immunomodulatory & Inflammation, Hepatoprotective, Obesity, Anti-infectives, Anti-oxidants, Anti infective, Anti-sera production, Toxicology, Nephroprotective, Stress induced studies, Cardioprotective, Cognitive/memory study, Immunobooster, Ocular studies ,

CLINICAL TRIALS

Clinical Trial Monitoring, Clinical Data Management, Project Management, Biostatistics, Medical Writing

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