

Analytical Chemistry Based Services

- Impurity Profiling
- Method Development & Validation
- Analysis of Raw Material, Finished Products, Related Substances, Residual & Heavy Metals, Element Analysis
- Bioanalysis For PK/TK Studies In Various Matrices Viz. Whole Blood, Blood Plasma, Urine, Tissues Etc
- Dose Formulation Analysis Including Stability, Active Ingredient Concentration And Homogeneity Analysis
- Physico-chemical Parameters Following All GLP Requirements
- Nitrosamine & Genotox Impurity Quantification
- Testing By FTIR, DSC, XRD, NMR, GC-MS/MS & Size Exclusion Chromatography for MW.
- LC-MS-MS based Analysis
- ADME Profiling
- Assay of Heparin, Enoxaparin & Streptokinase
- SEM/Cryo-SEM based Characterization
- Any Other Customized Method Development, Validation And Analysis as per Sponsor/client Requirement



Molecular Biology/virology Based Testing & Other Assays:

- RT-PCR (Analytik Jena)
- PCR (Analytik Jena)
- Horizontal & Vertical Electrophoresis
- Gel Based Testing (Analytik Jena)
- Blotting Technique (Western Blotting, Northern Blotting and Southern Blotting)
- ELISA Kit based All Assays
- Heparin, Enoxaparin and Streptokinase Assays
- Flow Cytometry based Assays



Other Important Services

- Formulation Development for Pharma, AYUSH Products as well as Cosmetics (with Ecocert, Cruelty Free, Halal, Natural/Organics Claims etc.)
- Synthesis Related Services - mg to Kg Scale up Synthesis

Microbial Testing as per IP, BP, USP, EP and Customer Specified Methods

- *Burkholderia Cepacia* Contamination Test
- Bacterial Endotoxin Test (BET)
- Sterility Testing
- Microbial Limit Test (MLT)
- Environmental Monitoring (EM)
- Water Sample Testing
- Antimicrobial Susceptibility Testing
- Antibiotic & Vitamin Assays
- Validation of Microbiological Methods
- Preservative Efficacy Testing (PET)
- Biological Indicator Spore Strip Enumeration Test
- Bioburden Analysis
- Mycotoxins, Allergens by ELISA
- Chemical Disinfectant Testing & Cleaning Studies
- Minimum Inhibitory Concentration (MIC)
- Microbial Identification



RRC is GLP & FDCA certified laboratory having CCSEA Registered Barrier Maintained Animal Facility. RRC is also having a license by the Ministry of AYUSH and accredited with ISO/IEC 17025:2017 (NABL).

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Ribosome Research Centre



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ABOUT US

Ribosome Research Centre Pvt. Ltd. (RRC) is a global contract research organization. RRC is the one stop solution for all pharmaceuticals, agrochemicals, cosmetics, medical devices, herbal formulations and many other products. RRC can serve for different kind of studies/testing following various pharmacopeias (e.g. IP, BP, USP etc.) and/or testing guidelines (e.g. OECD, ISO, EPA, EC, JMAFF, EMA, USFDA etc.). Our crew of specialists brings a complete portfolio of non-clinical regulatory toxicity testing, microbiological testing, Phys-chem studies, bioanalysis and all other analytical services, etc.

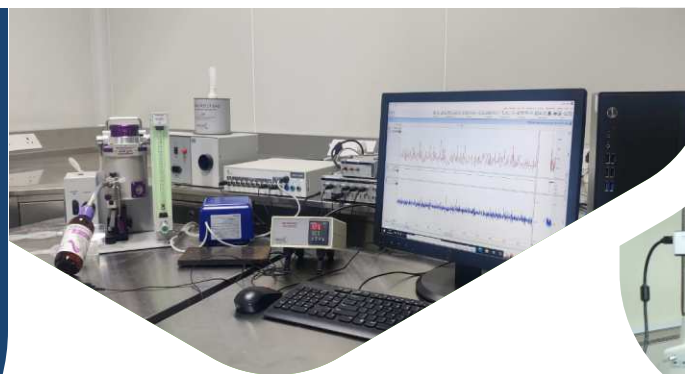
WE OFFER

Safety Evaluation for Pharmaceuticals/Agrochemicals/Medical Devices/ Cosmetics/AYUSH products to meet the requirement of different testing standards and guidelines; (OECD/ISO/EPA/JMAFF/NDCT,2019/EMA/USFDA/PHARMACOPEIAS etc.)

- **QSAR based Safety Evaluation and Biological Activity Evaluation & PDE Calculation Based Services**

***In Vitro/in Vivo* Pharmacology Models for Efficacy Testing as below :**

- Pain
- Inflammation
- Oncology
- Metabolic disorders
- Gastric diseases
- Hepatic disorders
- Neuro-pharmacology
- Immune disorders
- Hair biology
- Infectious diseases
- Fertility
- Efficacy models for Cosmetics (Antiwrinkle & Antiaging, Hyperpigmentation, Antioxidant, Barrier repair etc.)
- Customized models as required



Safety Pharmacology Studies

- Cardiovascular System
- Central Nervous System
- Respiratory System & Others

Genotoxicity Testing

- Ame's test
- Chromosomal Aberration Test
- *In vitro* & *In vivo* Micronucleus Test

In Vitro Alternative Testing

- Predictive Toxicity Testing
- Skin Irritation/Skin Corrosion/Skin Sensitization Test (BCOP, RHE Model, DPRA)
- TER (Transcutaneous Electrical Resistance Test)
- *In Vitro* Efficacy Testing
- *In Vitro* Release Testing (IVRT)
- Customized Testing as per Sponsor's Requirement

In Vivo Safety/Toxicity Evaluation in Rodents & Non-rodents

- PK/TK/BA & BE Studies
- Single Dose/Acute Toxicity Studies by All Routes (Oral, IV, IM, SC, Nasal, Dermal, etc.)
- Skin Irritation Test (ADI), Ocular irritation test (AEI)
- Skin Sensitization Test (GPMT and Buehler Test)
- Repeated Dose 14/28/30/90/180 days/1 Year Toxicity Studies
- Carcinogenicity Study
- Combine Chronic/Carcinogenicity Test
- Prenatal Developmental Toxicity Study
- Reproduction/Developmental Toxicity Screening Test
- Endocrine Disruptor Studies
- One Generation & Two Generation Studies
- Extended One Generation Study etc

Biocompatibility Testing of Medical Devices

- Cytotoxicity Test
- Genotoxicity Test (Bacterial Reverse Mutation, Micronucleus test, Chromosomal Aberration Test)
- Acute Systemic Test
- ICRT (Intracutaneous Reactivity Test)
- Implantation Test by Different Routes viz. SC/IM/bone in Rodents & Nonrodents
- Hemocompatibility tests (Direct/indirect hemolysis, PTT, hematology, platelet count etc.)
- Pyrogen test as per USP/IP/BP/ISO etc
- Skin Sensitization Test (GPMT & Buehler test)
- Single Dose Toxicity Test, Repeated Dose Toxicity Test (Sub-acute/Sub-chronic/Chronic Toxicity, Carcinogenicity etc.)
- Chemical Characterization Test including Leachable & Extractable Analysis
- Biological Evaluation Plan/Report & Risk Assessment Plan/Report Preparation

