



Dr. Rao's
LIFE SCIENCES
Everything is Science

Dr. Rao's Life Sciences is an Analytical testing laboratory offering Regulatory Compliance analytical research and testing services to Pharmaceutical, Biotech, Bio Pharmaceutical and Health care industries.



**Analytical Testing
Laboratory**

www.drraosls.com



SERVICES

Analytical Method Development & Validation

- Method development & validation as per regulatory guidelines
- Offering validation studies by using wide range of equipment's like LC-MS/MS, GC-MS/MS, ICP-MS, and HPLC & GC etc.
- Offering both chromatographic and spectroscopic techniques
- Method verification by using various pharmacopoeial references
- Related substances, assay studies & assay determination studies
- Residual solvent analysis, Genotoxic impurities and Nitrosamine impurities analysis

Quality Control Analysis

- Raw material analysis
- In-process analysis
- Batch release analysis
- Identification test
- Assay analysis
- Related substances & residual solvents analysis
- Analysis based upon STP's or Monographs (IP/USP/BP/Ph. Eur.)
- Physico chemical & thermal analysis
- Dissolution studies

Chemical and Instrumental Analysis

- Chromatographic techniques (TLC, HPLC & GC)
- Spectroscopic techniques (UV, IR, Mass, NMR)
- Thermo analytical techniques
- Genotoxic impurities and nitrosamine impurities analysis by using LC-MS/MS & GC-MS/MS
- Titrimetric analysis
- Dosage form analysis
- Physical parameters



Elemental Impurities & Nitrosamine Analysis

- Elemental Impurities method development and validation by using ICP-MS
- Elemental impurities as per ICH-Q3D guidelines
- Method development and validation of nitrosamine impurities by using LC-MS/MS & GC-MS/MS
- Method Development and validation of Genotoxic impurities by using LC-MS/MS & GC-MS/MS

Extractable & Leachable Analysis

- Screening study for the extractable and leachable
- Quantification of the extractable and leachable
- Method development & validation as per ICH guidelines
- Studies based upon PQRI guidelines

Water Analysis

- Water analysis as per ISO 10500
- Water analysis as per WHO
- Water analysis as per US EPA

Structural Elucidation (Characterization)

- Structural elucidation for unknown organic molecules by using (UV, IR, Mass & NMR)
- Characterization by using NMR studies (1D&2D)
- Isomers confirmation by using NMR
- Structural confirmation by using various experiments in NMR like COSY, NOESY, HMBC, HSQC etc.

Packaging Material Analysis

- Packaging material analysis as per USP <660> & <661>
- Glass tests and impurity tests as per methodology
- Polyethylene Containers(HDPE and LDPE) analysis
- Polypropylene Containers analysis

Medical Devices Testing

- Medical devices testing as per ISO
- Chemical analysis
- Screening tests
- Characterization studies

Our Expertise:

- LC-MS/MS
- GC
- TGA
- Potentiometric Titration
- GC-MS/MS
- NMR
- Particle Size Distribution
- KF Titration
- ICP-MS
- XRD
- FT-IR
- Dissolutions
- HPLC
- DSC
- UV-Visible Spectroscopy
- Polari Meter

Our Certifications:

- | ISO 9001-2015 (Quality Management System)
- | ISO 45001-2018 (Occupational Health & Safety Management System)
- | GLP (Good Laboratory Practice)

Training Services:

Dr. Rao's Life Sciences offer training services to science enthusiasts who qualified their graduation and also offer technical training to the employees who are working in the industry.

- Practical exposure in analytical development and validation.
- Practical hands on experience on HPLC, GC, LC-MS/MS & GC-MS/MS.
- Project services for the pharmacy students.
- Real time project experience for pharmacy students.
- Basic training on core quality assurance.
- Basic training on regulatory affairs.



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