



Small Molecule Analytical Services

A Partner With Expertise Renejix's small molecule analytical team has developed and applied thousands of analytical methods to progress drug candidates. All stand-alone small molecule analytical projects are managed through our Happaug Industrial Park, NY and Central Islip, NY locations. Leverage Renejix's network of over 400+ researchers in 3 countries, providing a single-site solution, with the scientific resources of a multinational research organization.

- Hundreds of clients supported, from start-ups to large pharma
- Industry-renowned experts
- Dedicated project management team throughout project lifecycle
- Dossier-ready reports



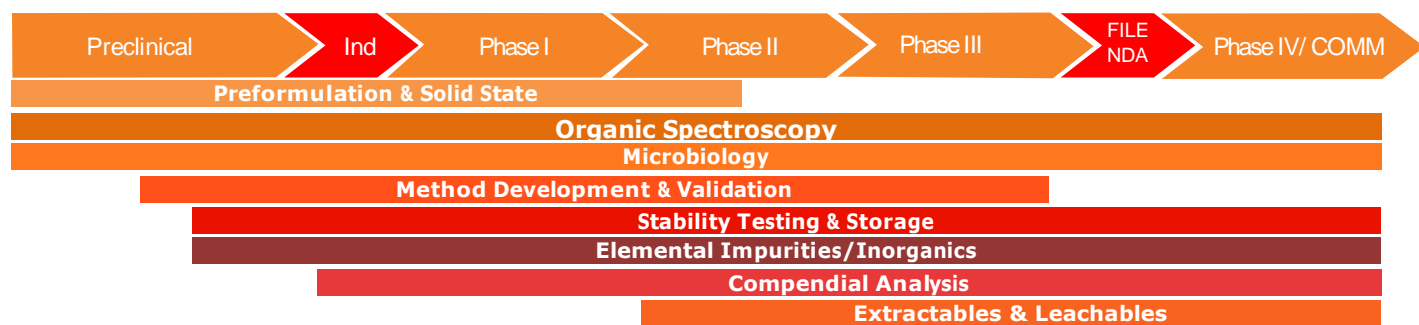
Broad Suite Of Services We support GMP, GLP and characterization studies for drug substance, drug product and intermediates. We work on controlled drug substances from early preclinical through clinical and commercial stages, Renejix delivers a single-provider solution for a wide variety of challenges:

- Method development, optimization, validation & transfer
- Stability testing and storage
- Preformulation & solid state
- Elemental impurities / Inorganics
- Organic spectroscopy
- Compendial analysis



Strength In Stability With over 30,000 ft³ of fully-mapped and qualified stability chambers, dedicated study coordinators, continuous monitoring and validated electronic scheduling / reporting, we can support all study types and time points as well as provide the stability testing needed to support a product throughout its lifecycle.

SMALL MOLECULE ANALYTICAL SERVICES



PREFORMULATION & SOLID STATE	Excipient/compendial release Routine testing & process support	STABILITY TESTING & STORAGE	COMPENDIAL ANALYSIS
<p>Preformulation Studies Solubility and stability (pH, O₂, T, RH) Physical properties evaluation</p> <ul style="list-style-type: none"> Hygroscopicity Crystallinity Thermal <p>Excipient compatibility Salt Screening & Selection High-throughput capabilities Scale-up capabilities (up to 2L)</p> <p>Detailed candidate salt evaluation Crystal-Form Screening & Selection Focused and comprehensive screening Phase-diagram</p> <p>Polymorph control Co-Crystal Screening Milling, solution & slurry modes Crystal engineering Crystallization Screening Crystallization of amorphous API</p> <p>Chiral resolution Process Development</p>	<p>MICROBIOLOGY</p> <p>USP testing for various product types Qualification & Testing Sterile and Non-Sterile Products Oral, Blow-Fill-Seal Combination products Endotoxin USP<85> Gel Clot Kinetic / Turbidimetric Chromogenic Microbial Enumeration USP <60>, <61>, <62> Sterility USP<71> Utilizing Isolator Technology</p>	<p>Stability Storage Over 30,000 ft³ of mapped/qualified chambers Temperature range: -80°C to 60°C Humidity range: 20% to 75% RH Redundant power, water & air systems ICH photostability option 2 WHO, ASEAN, ICH & custom chambers Thermal cycle & freeze/thaw exposures Dedicated/qualified engineering group</p> <p>Stability Testing Release & stability testing</p> <ul style="list-style-type: none"> Clinical Comparator Registration Commercial <p>Dose dumping studies In-use studies In-vitro feeding tube studies Safety (categories 1-4) Controlled substances (schedule I-IV)</p>	<p>USP / ACS Ph Eur / BP JP / JPE</p> <p>Instrumentation Malvern Mastersizer 3000 / DLS HPLC various detection capabilities GC, GC-MS</p> <p>Verification of Method Transfer Residual Solvents per USP <467> Screening Limit tests Quantitative tests Component testing</p>
<p>ORGANIC SPECTROSCOPY Techniques NMR (Nuclear Magnetic Resonance)</p> <ul style="list-style-type: none"> qNMR (Quantitative NMR) <p>LC MS / LC MS-MS</p> <ul style="list-style-type: none"> QTOF, triple quad, ion trap <p>FTIR / DSC / TGA / UV-Vis / LOD / ROI Karl Fischer / Moisture content</p> <p>Impurity Identification Molecule weight / Accurate mass Fragment pattern interpretation Impurity enrichment / isolation Genotoxic impurities Routes of formation</p> <p>Reference Standards Identity & purity Reference standard qualification</p> <p>Other Manufacturing Support API release, quantity, and ID Quantitation of genotoxic impurities</p>	<p>METHOD DEVELOPMENT & VALIDATION</p> <p>API and drug product (all dose forms) Method Development & Capabilities HPLC/UPLC/GC assay and impurities Dissolution:</p> <ul style="list-style-type: none"> Immediate release Sustained release Extended-release <p>Residual solvents Cleaning verification Physical methods:</p> <ul style="list-style-type: none"> Moisture HIA CE UV Assay <p>Method Validation Phase-appropriate validation Method validation remediation</p> <p>Method Optimization Method Transfer Side-by-side comparison Transfer of elements of validation</p> <p>Method Troubleshooting</p>	<p>ELEMENTAL IMPURITIES/INORGANIC</p> <p>Q3D Risk Assessment Risk assessment testing</p> <ul style="list-style-type: none"> GMP/non-GMP screening packages <p>Risk assessment regulatory reports Regulatory consulting</p> <p>Compendial Metals Testing USP / ACS / Ph Eur</p> <p>Techniques ICP-MS ICP- OES GFAA FAA CVAA</p> <p>Routine Testing Support Process Chemistry Support Metal catalyst analysis Manufacturing component screening</p> <p>Inorganics Extractables & Leachables Inorganic impurities Q3D-aligned USP <661.1> Extractable Metals</p>	<p>EXTRACTABLES & LEACHABLES</p> <p>Extractables Characterizations Container closure systems Single-use items Manufacturing Leachable Migration Studies Drug Product Drug Substance In-process testing / In-use testing Leachables Method Development & Validation ICH Guidelines Volatile, semi-volatile & non-volatile Nitrosamines PAHs Fatty acids Leachables Stability/Release Drug Product Drug Substance Container closure materials (release only)</p>

Discover more solutions
www.renejix.com
Call (+1 631-210-5235)
info@renejix.com