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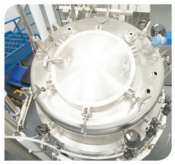


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CHEMICAL ENTITIES

	PRECLINICAL	CLINICAL PHASES I & II	CLINICAL PHASE III, COMMERCIAL & LIFE CYCLE MANAGEMENT
DRUG SUBSTANCE	• Development of new, scalable API route options • Synthetic route scouting/design • Process safety and hazards assessment	• Synthetic route redesign • Process step redesign/redevelopment • High-throughput screening • Physicochemical characterization of API's and advanced intermediates	• Process mapping (Design of Experiments) • Lifecycle optimization • Impurity synthesis/characterization
DRUG PRODUCT	• Preformulation/formulation screening • Formulation development and manufacturing • Analytical method development • Stability studies • GLP analysis of non clinical formulations	• Formulation and process development • Process confirmation run, production of reference material • Clinical trial manufacturing • Analytical method development • Analytical method qualification/ validation • QC testing and batch release • Stability studies	• Commercial manufacturing (small commercial batches and orphan drugs) • Process validation • Release testing • Analytical method update • Analytical method validation • Stability studies • Life cycle management of mature products and analytical methods
OTHER SERVICES	• Pharmacology (Proof of concept) • Pharmacokinetics • Bioanalysis for toxicology studies	• ADME studies • Clinical PK: development, validation and assay of samples • Quality Control of raw materials • Clinical packaging and logistics	• Quality control of raw materials and drug products • Clinical PK: development, validation of bioanalytical method and assay of samples • Clinical packaging and logistics

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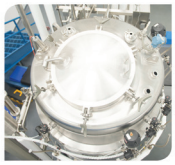


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BIOLOGICAL ENTITIES

	PRECLINICAL	CLINICAL PHASES I & II	CLINICAL PHASE III & COMMERCIAL
DRUG SUBSTANCE	• Microbial strains and cell lines • Upstream and downstream process development • Analytical method development • Manufacturing • Stability studies	• Bioprocess development • Process confirmation run, production of reference material • Analytical method development • Analytical method qualification/ validation • Clinical trial manufacturing • Stability studies	• Process upscaling and validation • Analytical method update • Analytical method validation • Manufacturing of commercial batches • Stability studies
DRUG PRODUCT	• Preformulation/formulation screening • Formulation development and manufacturing • Analytical method development • Stability studies	• Formulation and process development • Process confirmation run, production of reference material • Clinical trial manufacturing • Analytical method development • Analytical method qualification/ validation • QC testing and batch release • Stability studies	• Process upscaling and validation • Analytical method update • Analytical method validation • Commercial manufacturing • Stability studies
OTHER SERVICES	• Pharmacokinetics • Bioanalysis for toxicology studies • Quality Control testing of raw materials • Transfer • Consultancy	• ADME studies • Clinical PK: development, validation and assay of samples • Quality Control testing of raw materials • Process transfer • Clinical packaging and logistics	• Quality control testing of raw materials • Process transfer • Clinical packaging and logistics

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