

# Clearsynth

## Drug Development Services

Unlocking Innovation for Future Cures

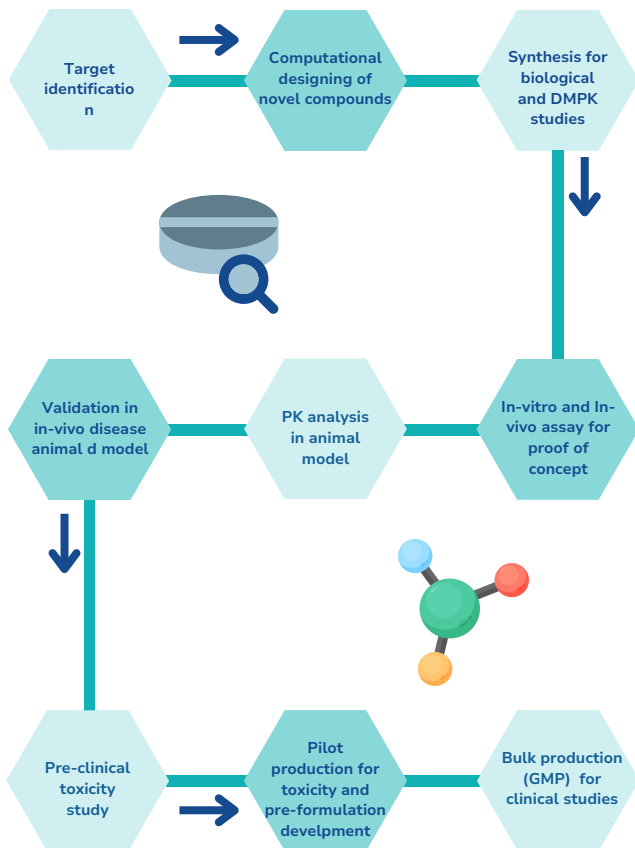


Clearsynth is a technology-based, research-driven enterprise with the World's Largest Inventory of Isotopic Research Chemicals. We aim to enable the research community to accelerate discovery by synthesizing complex and difficult-to-make compounds.

The 'Catalyst' in making your research work

Drug discovery is an inventive process which uses biological target information to identify novel pharmaceutical entity. Typically includes, early drug discovery, pre-clinical studies, clinical trials, and regulatory approval

## WORK FLOW



# Services Offered

## Integrated Drug Discovery

- Computational biology
- Chemistry services
  - Medicinal & Synthetic
  - Analytical
- Pre-clinical biology
- DMPK



## Deuterated Drug Discovery

- Screening of compounds with systematic analysis for deuteration.
- Identification of hot spots for Deuteration
- Synthesis of deuterated compounds
- Pre-clinical POC in animal model



## Drug Development

- Development includes lab to commercial scale
- Cost reduction of existing Route.
- Analytical Method development.
- Technology transfer
- Pre Formulation development.



## Bulk Production

- Non-GMP and GMP manufacturing
- CMC activities
- DMF filings (for regulatory & semi regulatory customers)
- Regulatory approval for US/EU/Japan & other regulatory or semi regulatory countries



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# How Deuteration Benefits Drug Properties

- Increases Half Life and slows pharmacokinetic effect
- Improves metabolic stability
- Reduces Formation of toxic metabolites
- Enhances building up of desired active metabolites
- Improves Safety, efficacy and tolerability of the drug



## CLEARSYNTH CAPABILITIES

- Technical collaboration with the Heavy Water Board for non-nuclear applications
- In-house R&D, Pilot Plant, and Bulk Scale GMP Manufacturing setup
- Facility to manufacture products from mg to tonnes
- Catering to 4,500+ business partners, mostly Pharmaceuticals, Clinical Research and Testing Labs
- DSIR Recognized R&D Centre by Department of Science & Technology
- Operations in India, USA & Canada

The 'Catalyst' in making your research work



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