

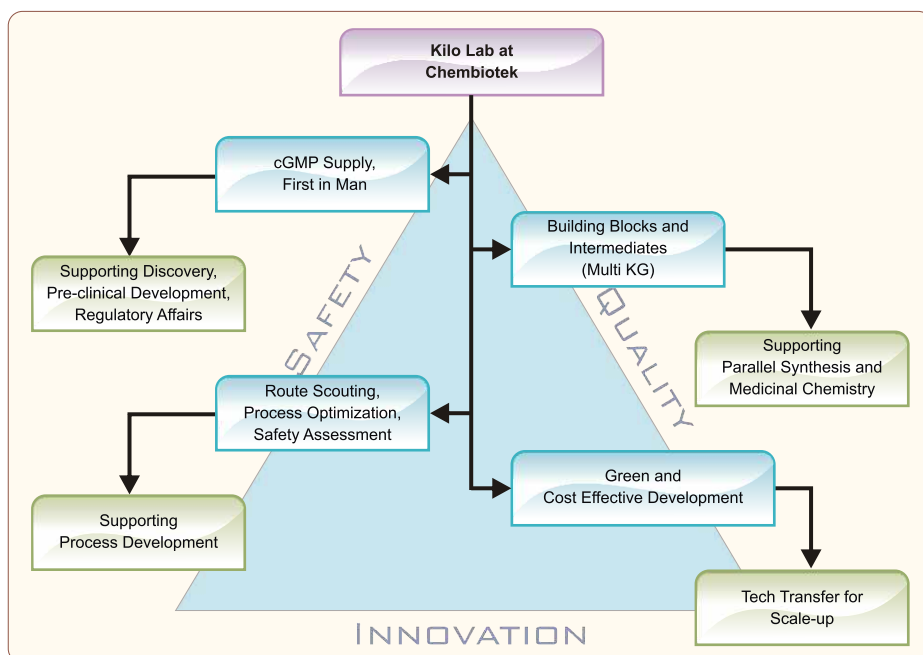
# kilo scale synthesis

Our cGMP compliant kilo laboratory operations inculcate state-of-the-art science, strictly adhere to delivery time and quality, and observe the highest ethical standards. Our process chemistry and medicinal chemistry scientists work together to serve the varying needs of our existing and prospective customers.

- Develop and optimize safe, eco-friendly and cost effective processes.
- Manufacture of all clinical trials material under cGMP conditions.
- Support all IND enabling activities as per the international guidelines.
- Assist in reducing IND and NDA filing timelines and faster launch of the drug in the market.

## Key features

- Access to international quality analytical labs and facilities at the same location.
- Equipped with 20L to 200L capacity reactors to handle a wide range of reactions under -80 to +200 degree C temperature range.
- Thorough understanding of the chemistry involved for seamless technology transfer from R&D laboratory to kilo scale synthesis.
- Hazop studies prior to carrying out any unknown reaction and other HSE measures.
- Project management expertise enabling troubleshooting and problem solving on real time basis.
- Efficiency, time optimization, innovative analytical approach with highest QC standards.
- Independent and separate QA function to ensure rigid adherence to International guidelines and laid down SOPs.
- Experienced production and QA professionals.



Partnering to reduce bench to market timelines cGMP supply of 'First-in-human' material

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## Reaction Capabilities

- Alkylation reactions using RLi, Metal hydrides, HMDS-Na, K, Li and RMgX
- Chiral alkylation reactions using chiral auxiliaries
- Reductions using Metal Hydrides, CBS
- Oxidations using Swern, Jones, Moffat and TEMPO
- Aromatic and aliphatic Nitrations
- Chemical resolutions
- Metal catalyzed cross coupling reactions
- Halogenations
- Heterocyclic chemistry
- Peptide synthesis in solution phase



## Key Equipments

- All glass / glass lined reactors
- Reaction calorimeter
- Differential scanning calorimeter
- Centrifuge
- Neutsch filter
- Sparkler filter
- Vacuum tray dryers
- Vibro sifter
- Jet mill



### TCG Lifesciences Limited

#### Corporate (India):

Block BN, Plot 7, Sector V  
Salt Lake Electronic Complex Kolkata  
700 091, India.  
Phone: +91 33 2367 3150-53  
Email: info@tcgls.com

Jagdish Sastry, President Custom  
Synthesis and Large Scale Business  
Email: jagdish.sastry@tcgls.com

#### USA:

Ashis K. Saha, PhD, Vice President, Discovery Research  
Phone: 001 978 212 5462 / +91 98361 77882  
Email: asaha@chembiotek.com

Debra J. Sponholtz, PhD, Director, Business Development  
Phone: 001 987 827 3159  
Email: dsponholtz@chembiotek.com

#### Europe:

Dr. Bernd Sundermann, Associate Vice  
President, Preclinical R&D  
Phone: +49 6175 797 619 / +49 151 5874 5687  
Email: bernd.sundermann@tcgls.com