



# CARBOLINK RESEARCH SOLUTIONS PRIVATE LIMITED

## PHARMACEUTICALS RESEARCH AND MANUFACTURING ORGANISATION

Plot No. 17, IInd Floor, Temple Town, Subbaraya Nagar, Thiruneermalai Main Road, Chrompet, Chennai - 600 044.

### COMPANY'S REGISTRATION NUMBERS

Company's Corporate Identification Number : U72200TN2024PTC166617, Date : 09.01.2024

Company's Permanent Account Number : (PAN) - AALCC5675K

Company's Tax Deduction and Collection Account Number : CHEC17646G

### PLEASE CONTACT US FOR MORE DETAILS

#### Mr. K. Ashok. B.E

Director (Operations)

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### CONTACT US

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### Welcome to M/s.CARBOLINK RESEARCH SOLUTIONS PRIVATE LIMITED,

M/s. Carbolink Research Solutions Private Limited is a leading Pharmaceutical Research and Development Company based in Chennai, Tamil Nadu, India. Founded by an accomplished Organic Process and Bio Process Chemical Engineer, our company is dedicated to pushing the boundaries of pharmaceutical innovation.

Our founder's journey began in the pharmaceutical industry as a trainee in Process Chemical Engineering, specializing in Synthetic Chemistry and R&D. Through this experience, he gained invaluable insights into the industry's significance, particularly in the development of APIs (Active Pharmaceutical Ingredients) related to Oncology Drugs. It was this profound understanding coupled with an innovative approach to Research and Development that inspired him to establish Carbolink Research Solutions. With a robust background in Process Development of APIs, Discovery Chemistry (DC), Chemical Development (CDMO & CRAMS), and expertise in Nucleosides, Peptides, and Phosphoramidites from Lab Scale to Pilot Scale Manufacturing, including the commercialization of NCEs (New Chemical Entities), our founder's journey is grounded in a wealth of experience and confidence. This background uniquely positions us to contribute significantly to the supply chain of Active Pharmaceutical Intermediates and Final APIs.

At Carbolink, we are committed to developing new molecules that not only meet the highest standards of quality but also directly contribute to the betterment of society. Our passion for innovation drives us to deliver products that make a tangible difference in people's lives.

At Carbolink Research Solutions Private Limited, we boast a formidable technical team specializing in Process Research Development (PRD) of APIs. Our team's expertise extends to quality, regulatory, and manufacturing aspects, ensuring regulatory compliance and the highest standards of quality in all our endeavors. Join us in our mission to revolutionize the pharmaceutical industry and create a healthier world for generations to come.



## Vision

Our vision is to emerge as a global research and development organization, recognized both domestically and internationally as an integrated pharmaceutical company. Through a commitment to innovation, quality systems, and competence, we aim to deliver cost-effective products that meet the highest quality standards and exceed customer expectations.

## Mission

At Carbolink Research Solutions Private Limited, our mission is to lead the way in research and development within the generics and biopharmaceuticals sector, as well as biotechnology products. With unwavering dedication, capabilities, and skills, coupled with our passion for providing cost-effective new drug molecules, we empower society to achieve the highest living standards.

## Company Policy

We are committed to establishing and maintaining the highest standards of safety and quality across our operations. From our own laboratory to approved laboratories at multiple sites in India and abroad, including pilot plant scale-up and bulk volume manufacturing facilities, as well as approved contract manufacturing facilities, our products adhere to stringent quality parameters and regulatory compliance.

## Our Capabilities

Our product range encompasses raw materials required synthesis of Oligonucleotides, including DNA, RNA, PNA, and UNA products. With impeccable consistency ensured by our quality control measures, we offer comprehensive Phosphoramidites chemistry capabilities for Oligonucleotides. From milligrams to kilo-based larger quantities, we scale up the synthesis of Phosphoramidites based on customer needs. With a dedicated team of scientists, we customize novel nucleic acid techniques and scale up operations for phosphoramidites synthesis, as well as Nucleoside and Nucleotide Analogs, ensuring we meet the evolving demands of the pharmaceutical industry.

**Phosphoramidites.**

**- Product List is Enclosed.**

**Oncology API's and Intermediates.**

**- Coming Soon**

**Specialty Chemicals.**

**- Coming Soon**



## Technical Services:-

### Custom Synthesis:

M/s. Carbolink Research Solutions Private Limited is your trusted partner for reliable custom chemical synthesis services. Backed by a first-class Innovative R&D team, led by experts with Ph.D. and master's degrees in science, boasting decades of experience in organic synthesis, we offer comprehensive chemical customization services to our customers.

**Nucleoside Chemistry.**

**Nucleosides & Amidites.**

**Carbohydrate & Lipids.**

**Linker & Spacers for Oligonucleotides.**

**Phosphorylation Chemistry. (NTP ).**

**Scale-up Process.**



### Why Choose M/s.Carbolink Research Solutions for Your Custom Synthesis

Our experienced, and pioneering team of chemists is adept at meeting the demand for customization of new compounds across all scales, from small to large. With a focus on innovation and precision, particularly in nucleosides synthesis, we ensure that our clients receive top-notch products tailored to their specific needs.

Backed by first-class production equipment and a rigorous quality management system, we guarantee the highest standards of excellence in every aspect of our operations.

### Service Model with Guaranteed Satisfaction

Product delivery model : - Delivery of final product as well as electronic data reporting. In addition to the protocol, relevant electronic data are provided together, including NMR analysis, HPLC, MS analysis, GC, etc.

**Order  
Consultation**

**Feasibility  
Evaluate**

**Approve  
Quotation**

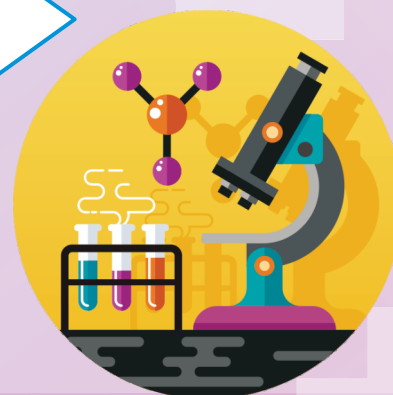
**Synthetic  
Route Design**

**Progress  
Report**

**Analytical  
Results**

**Customer  
Approval**

**Product  
Delivery**



## Intellectual Property Protection

At Carbolink Research Solutions Private Limited, we recognize that intellectual property is one of our most valuable assets, as well as for our esteemed customers. To safeguard this critical asset, we take stringent measures to protect confidentiality and uphold the trust placed in us.

Before commencing any experiments, we ensure that confidentiality agreements are in place with both our customers and employees. This ensures that all parties involved understand the importance of maintaining the confidentiality of sensitive information throughout the project lifecycle.

Our commitment to confidentiality extends across all stages of our services, from literature research and synthetic route design to synthesis, analysis, and beyond. Every step is meticulously carried out in strict accordance with the terms outlined in the confidentiality agreements, guaranteeing the utmost discretion and security of our clients' proprietary information.

By adhering to these rigorous standards, we are able to deliver target compounds to our clients in the shortest possible time, providing them with the peace of mind they need to confidently pursue their research and development goals. If you have any questions or need a customized service, please contact [info@carbolink.in](mailto:info@carbolink.in) and we will be happy to serve you! Enquire Now



## CDMO/CMO Services:

As a full-service Contract Development Manufacturing Organization (CDMO) specializing in pharmaceutical intermediates, we offer our customers comprehensive solutions tailored to their unique projects. From the initial clinical phase to the commercial stage, we are committed to providing innovative and reliable services that meet the highest standards of quality and compliance. Our expertise allows us to develop cost-efficient manufacturing processes that deliver high-quality pharmaceutical intermediates. We prioritize environmental sustainability, occupational health, and safety throughout our operations, ensuring full compliance with regulatory requirements.

By adhering to cGMP international standards, we guarantee that our products meet the strictest quality criteria, giving pharmaceutical companies the confidence, they need in the reliability and integrity of our services. At Carbolink Research Solutions Private Limited,

we are dedicated to supporting our clients' success by delivering excellence in every aspect of contract development and manufacturing.





## OUR CAPABILITIES:

- Scale-up of APIs from laboratory to non-validated kilo GMP scale
- Scale-up of laboratory processes to optimized Manufacturing processes Environment Friendly Processes.
- Adherence with Occupational Safety and Health to the Employees.
- Obtain APIs of desired quality, including particle size and desired polymorph, to suit the requirements of our international customers
- Our Products are Cost Efficiency and manufactured with Eco Friendly Automated Processes.
- Validation of processes in CGMP compliance, Multi-purpose plant, on a commercial scale up to Bulk Scale.

## CHEMISTRY :-

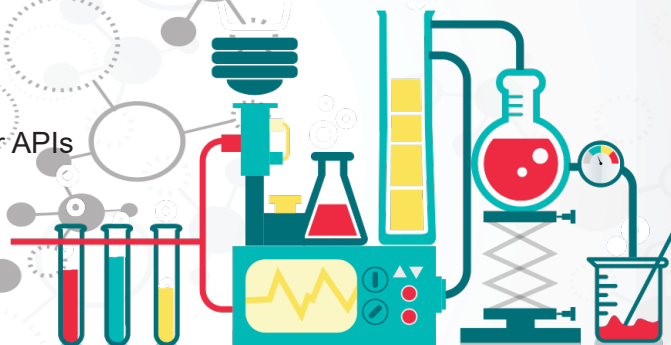
Heterocyclic chemistry  
Catalytic hydrogenations  
Green chemistry  
Phosphoramitides Chemistry

## PROCESS :

Development of novel/non-infringing processes for APIs  
Development of environment friendly processes  
Ability to comply with ICH guidelines  
Scale of synthesis from 1 $\mu$ mol to 12mmol

## ANALYTICAL :

Development of in-process analytical methods  
Isolation and identification of impurities  
Enantiomer separation using chiral HPLC/GC columns



## Process Chemistry Scale-Up

Processes developed at lab scale are scaled-up to Kilo Scale.

## PROCESS CHEMISTRY

Process development work for the Active Pharmaceutical Ingredients (APIs) is carried out by the Chemical Process Research Laboratory, which focuses on developing commercially viable eco-friendly processes for Drug intermediates and APIs for the regulated global markets.





## Careers At M/s.Carbolink Research Solutions Private Limited.

M/s.Carbolink Research Solutions Private Limited, believes that the right environment and the right opportunities allow deserving people to deliver outstanding results. Our employees have opportunity to learn and develop, to grow and perform to their fullest potential. They work in an environment that values their ideas, teamwork and personal safety. Our culture expects results, and for those results to be achieved in a customer-focused & respectful manner.

Our success and growth continues with our main assets-our people, which is why we are always looking to expand our talented team. If you are ready for a career with challenges, demanding innovative approach and to work in a environment that fosters professional development.

Are You ready to be in M/s.Carbolink Research Solutions Private Limited. You can send us your Resume through the following **E-Mail Id : [info@carbolink.in](mailto:info@carbolink.in)**.





## PRODUCT LIST



ITEM	PRODUCT NAME	CAS NO
1	DMT-2'-O-TBDMS-A(Bz)-CE Phosphoramidite	104992-55-4
2	DMT-2'-O-TBDMS-C(Ac)-CE Phosphoramidite	121058-88-6
3	DMT-2'-O-TBDMS-G(iBu)-CE Phosphoramidite	147201-04-5
4	DMT-2'-O-TBDMS-G(dmf)-CE Phosphoramidite	149559-87-5
5	DMT-2'-O-TBDMS-U-CE Phosphoramidite	118362-03-1
6	DMT-2'-O-Me-A(Bz)-CE Phosphoramidite	110782-31-5
7	DMT-2'-O-Me-C(Ac)-CE Phosphoramidite	199593-09-4
8	DMT-2'-O-Me-G(iBu)-CE Phosphoramidite	150780-67-9
9	DMT-2'-O-Me-G(dmf)-CE Phosphoramidite	128219-77-2
10	DMT-2'-O-Me-U-CE Phosphoramidite	110764-79-9
11	DMT-2'-F-A(Bz)-CE Phosphoramidite	136834-22-5
12	DMT-2'-F-C(Ac)-CE Phosphoramidite	159414-99-0
13	DMT-2'-F-G(iBu)-CE Phosphoramidite	144089-97-4
14	DMT-2'-F-G(dmf)-CE Phosphoramidite	1391913-24-8
15	DMT-2'-F-U-CE Phosphoramidite	146954-75-8

Many More Phosphoramitides Compounds are under Pipe Line for Commercial Sales

## A) CHIRAL REAGENTS LIST

SR.NO	PRODUCTS
1	O,O'-DIBENZOYL-D-TARTARIC ACID ANHYDROUS / MONOHYDRATE
2	O,O'-DIBENZOYL-L-TARTARIC ACID ANHYDROUS / MONOHYDRATE
3	O,O'-DI-P-TOLUOYL-D-TARTARIC ACID ANHYDROUS / MONOHYDRATE
4	O,O'-DI-P-TOLUOYL-L-TARTARIC ACID ANHYDROUS / MONOHYDRATE

## B) SPECIALITY CHEMICALS PRODUCT LIST

SR.NO	PRODUCTS
1	DIISOPROPYLAMINE (DIPA)
2	N,N DIISOPROPYLETHYL AMINE (DIPEA)
3	1,4 DIOXANE
4	N-METHYL-2-PYRROLIDONE (NMP)
5	TRIETHYLAMINE (TEA)
6	DIBROMOMETHANE (METHYLENE DIBROMIDE)
7	DI IODOMETHANE
8	IDOCHLOROMETHANE
9	BROMOCHLOROMETHANE
10	ETHYL BROMIDE (EBR)
11	ACTIVATED MANGANESE DIOXIDE

## C) KSM / INTERMEDIATES PRODUCT LIST

SR.NO	PRODUCTS
1	META CHLORO ANISOLE (MCA)
2	META BROMO ANISOLE (MBA)
3	3 NITRO ACETOPHENONE (3NAP)
4	3 HYDROXY ACETOPHENONE (3 HAP)
5	3 NITROBENZALDEHYDE (MNB)
6	TETRALONE (INTERMEDIATE FOR SERTRALINE HCL)
7	PYRIDINIUM CHLOROCHROMATE / DICHROMATE
8	CIS BROMO BENZOATE
9	7-METHOXY (INTERMEDIATE FOR GEFTINIB)
10	PIPERAZINE ANHYDROUS
11	BIS TRIMETHYL SILYL SELENIDE

### Notes:

- Packing** : As recommended in Material Safety Data Sheet.
- Shipping** : As recommended in UN Approved Packaging with Recommended Temperatures.
- Incoterms**: FOB. Chennai Port. Tamilnadu. India.

