

+O (CH)



ANVITHA

ANVITHA LIFE CARE PRIVATE LIMITED

VISION

- ❖ Production and supply of APIs to the OTC and Generic finished dosage manufacturers using a non-patent-infringing process.
- ❖ Provide cost-effective advance intermediates from India under total GMP to overseas customers.
- ❖ A fully compliant and responsible manufacturer of API's and advance intermediates
- ❖ Skill development to science graduates and post-graduates in the areas of Drug research and guiding them for PhD degree.

ABOUT ANVITHA

- ❖ **Anvitha Life Care Private Limited, founded in 2016,** is promoted by **Dr T. Prakasam** with a group of scientists and technocrats with combined experience of more than 80 years. The facility is spread over 17658 sq
- ❖ Anvitha Lifecare, was founded with a basic vision of providing best chemistry services to support Clinical Research by developing difficult chemistries,
- ❖ Anvitha works with several Multinational Innovator companies supporting them throughout the clinical phases by providing Key starting materials and Intermediates,
- ❖ Anvitha works with Generic companies by collaborating at an early stage of development in the supply of Intermediates,
- ❖ Anvitha Lifecare aspires to provide end – to – end services to both innovator companies and Generic API companies.

ABOUT DIRECTORS

Dr Prakasam Tangirala – Synthetic Organic Chemistry

- Promoter & Managing Director of ANVITHA is an organic chemist with an experience of over 30 years in Research and Development of Active pharmaceutical ingredients, intermediates, specialty molecules, new molecule discovery, contract research, technology transfer and scale-up.
 - Publications 15 in reputed journals
 - 10 US / Indian patents
 - 2 Product patents
- Developed processes for more than 500 molecules
- Commercialized more than 200 projects successfully
- Led the team of 75 scientists.
- Joint research with IIT Chennai.
- Supervisor ship from Anna University to guide research scholars for PhD degrees.
- Trained several students from local universities in drug research



ABOUT DIRECTORS

Dr B.N. Hitesh Kumar – Synthetic Organic Chemistry

- Director –Research of ANVITHA is an organic chemist with an experience of 29 years in Quality and Research and Development of Pharmaceutical companies
 - Publications 10 in reputed journals
 - 11 US / Indian patents
- Developed and commercialized processes for more than 300 molecules from gram level to ton scale
- Trained several students from local universities in drug research



ABOUT DIRECTORS

Mr. Vishweshwer Muthyam – Director

- Post graduate in Chemistry and Total Quality Management (TQM)
- With an experience about 28 years in API Manufacturing from Kilo scale to commercial scale in Multi-national companies
- Having rich experience in Kaizen implementation
- Exposure on Regulatory audits like TGA, USFDA, EU GMP, COFEPRIS, KFDA and several customer audits.



LOCATION

REGD OFFICE

**PLOT NO:6,
INDUSTRIAL PARK,
APIIC ,
ATTIVARAM ,
OZILI MANDAL,
NAIDUPETA,
NELLORE DT-524402**

**RESEARCH &
DEVELOPMENT**

WORKS



NAIDUPETA

- Well Equipped Chemistry Laboratories supported by Analytical Instrumentation.
- 6 fume hoods with all ancillary facilities,
- Provision for expansion to add another 10 fume hoods.
- Quick scale up studies in R&D itself with Kilolab,
- Facility to generate gms to kilo scale development quantities,
- Readily available GMP Kilo lab with all powder processing equipment for supply of initial GMP quantities,

Facility: Analytical Instrumentation

- FTIR
- HPLC (UV, PDA, DETECTORS)
- GC
- UV
- POLARIMETER
- Wet laboratory
- GMP stability facility

Facility: Kilo Scale Manufacturing

Anvitha's kilo scale manufacturing is a state of art facility consisting of:

- Dedicated airconditioned suits with 100k filtered air and controlled humidity for synthesis, drying, milling, sifting, blending and packing in compliant with Gmp requirements



Facility: Kilo scale manufacturing

**Glass flasks
for Synthesis
(10, 20 L)**

**Vacuum tray
drier
(10-15 Kg)
Multi mill
(5-10 Kg)**

**Double cone
blender**

**ROTA 12”
Vibro sifter**



Manufacturing Facility details

Bulk Manufacturing has the following equipment

EQUIPMENT NAME	CAPACITY	MAKE	QTY
SS REACTOR	250 L	SACHIN	1
SS REACTOR	1 KL	VEE	1
SS REACTOR	2 KL	VEE	3
SS REACTOR	4 KL	VEE	2
HYDROGENATOR (Pressure – 10 Kg/cm ² ; Temp: 120 deg C)	2 KL	VEE	1
GL REACTOR	250 L	GMM	1
GL REACTOR	4 KL	STANDARD GLASS	1
GL REACTOR	2 KL	STANDARD GLASS	2
CENTRIFUGE	48"	ACCURATE ENGINEERS	3
CENTRIFUGE	24"	AIM INDUSTRIES	1

Cont..

Manufacturing facility details

Bulk Manufacturing has following equipment

EQUIPMENT NAME	CAPACITY	MAKE	QTY
CENTRIFUGE- HALAR COATED	36"	JOFLO	1
TRAY DRIER	48 TRAYS	ACCURATE ENGINEERS	1
TRAY DRIER	24 TRAYS	GROVERS	1
VAC. TRAY DRIER	24 TRAYS	GROVERS	1
LEAF FILTER	100 LITRES	VEE	1
CONTA BLENDER	50 L & 300 L	SAMS	2
HIGH VACUUM DISTILLATION @ 0.5 mmHg	500 LITRES	FINE FAB	1

FACILITY: BULK MANUFACTURING



Facility: Bulk scale manufacturing

Cleanroom Equipment for API

EQUIPMENT NAME	CAPACITY	MAKE	QUANTIT Y
SS REACTOR	1 KL	VEE	1
GLR REACTOR	1 KL	VEE	1
CENTRIFUGE	36"	ACCURATE ENGINEERS	1
DOUBLE CONE VACUUM DRIER	150 L	GROVER	1
VACUUM TRAY DRIER	48 TRAYS	ACCURATE ENGINEERS	1
SIFTER	30"	ACCURATE ENGINEERS	1
MULTIMILL	150 KG	ACCURATE ENGINEERS	1

UTILITIES

BOILER

MAKE	CAPACITY	FUEL
THERMAX(COMBLOC PACKAGED HYBRID BOILER)	2 TON/HOUR	COAL/IGNITE/WOOD

HOT OIL SYSTEM

MAKE	CAPACITY	MODEL
THERMAX	2 LAKH K CAL/HOUR	TFH

MAKE	CAPACITY	MODEL
VOLTAS	181440 K CAL/HOUR	RECIPROCATING CHILLER

CHILLER (-20°C)

MAKE	CAPACITY	MODEL
VOLTAS	84672 K CAL/HOUR	SCREW CHILLER

AIR COMPRESSOR

MAKE	MAXIMUM PRESSURE
ATLAS COPCO	7.5 Bar

COOLING TOWER

CAPACITY	QUANTITY	MODEL
150 TR	3 NOS	ROUND

NITROGEN GENERATOR

CAPACITY	QUANTITY	MODEL
30 Nm ³ / hr	1	TRIDENT

Facility : EHS

The facility has designed zero discharge waste water treatment and evaporation systems consisting of:

1. MEE (25 KLD)
 2. Stripper (10 KLD)
 3. ATFD (2 KLD) and
 4. RO Plant to Treat high and low TDS effluents.
- and

Safety

1. Fire Hydrant System
2. Modular Fire Extinguishers
3. Occupational Health Center

Research Areas of Interest

Therapeutic Segments

- Antifibrinolytics
- Decongestants
- Vasopressors
- Anticoagulants
- Antituberculosis
- Anti Hypertension
- Cholesterol Reducing Agents

Enzymatic Reductions

Custom Synthesis

Advantage Anvitha

- A custom research organization promoted by strong scientific team with synthetic organic chemistry expertise in Drugs & Specialty chemical development.
- Team has Vast experience in execution of challenging Chemistry projects –API'S ,INTERMEDIATES and CHEMICALS from gram level to ton scale
- Dedicated kilo manufacturing facility to handle multi kilo production and Bulk manufacturing facility for ton lots

Advantage Anvitha

- A custom research organization promoted by strong scientific team with synthetic organic chemistry expertise in Drugs & Specialty chemical development.
- Team has Vast experience in execution of challenging Chemistry projects –API'S ,Intermediates and Custom synthesis from gram level to ton scale with regulatory exposure-**Successfully ,developed and commercialized, around 25 products in the last 24 months in the facility .**
- Has dedicated kilo manufacturing facility to handle multi kilo production and Bulk manufacturing facility for ton lots .

CHEMISTRY ACTIVITIES

- ❖ Process development as per customer needs
- ❖ Development of novel **chemical** entities as drug substances
- ❖ Simpler, cost effective routes, synthetic routes with production and environment friendly processes
- ❖ Identification and synthesis of process related impurities and reference standards
- ❖ Synthesis of Library molecules and building blocks for NDD

EXPERTISE

- ❖ Chiral Chemistry
- ❖ *Fischer Indole* Synthesis
- ❖ *Nenitzescu Indole* reaction
- ❖ *Mannich* Reaction
- ❖ *Baltz-Shiemann* reaction
- ❖ *Grignard* Reaction
- ❖ *Eshweiler – Clarke* Methylation
- ❖ *Pechmann* condensation
- ❖ *Pinner* Reaction
- ❖ *Bischler-Napieralski* Reaction
- ❖ *Crossed Aldol* Condensation
- ❖ Reductive amination
- ❖ Hydrogenolysis
- ❖ Asymmetric Induction
- ❖ Hydride Reductions
- ❖ Organometallic reactions
- ❖ *Wittig* Reaction
- ❖ *Benzoin* Condensation
- ❖ Cryogenic Reactions
- ❖ *Protection and Deprotection Chemistry (Boc, Fmoc, Ts, Cbz)*
- ❖ *Separation of Alkaloids using Column Chromatography*
- ❖ Haloform Reaction
- ❖ Guanidinylation
- ❖ Nitrosation
- ❖ Bromination
- ❖ Iodination
- ❖ Oxidation
- ❖ Chlorination
- ❖ Fluorination
- ❖ Hydrogenation using Noble metal catalyst

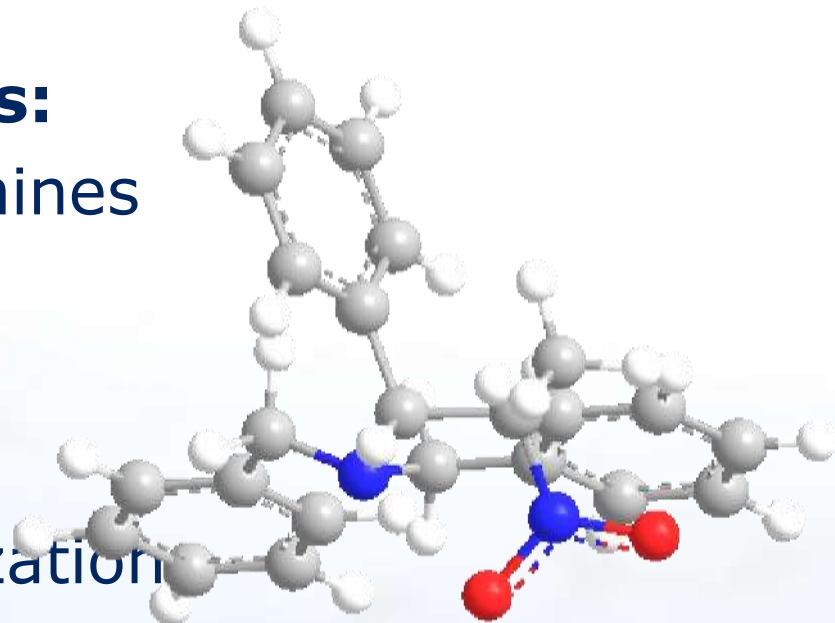
EXPERTISE

❖ **A. Asymmetric synthesis:**

- ❖ Optically active primary amines
- ❖ Optically active diols

❖ **B. Resolution:**

- ❖ By diastereomeric crystallization
- ❖ Using less than stoichiometric quantity of resolving agent
- ❖ Asymmetric transformation of diastereomeric salts
- ❖ Kinetic resolution



EXPERTISE

❖ **C. Resolving Agents**

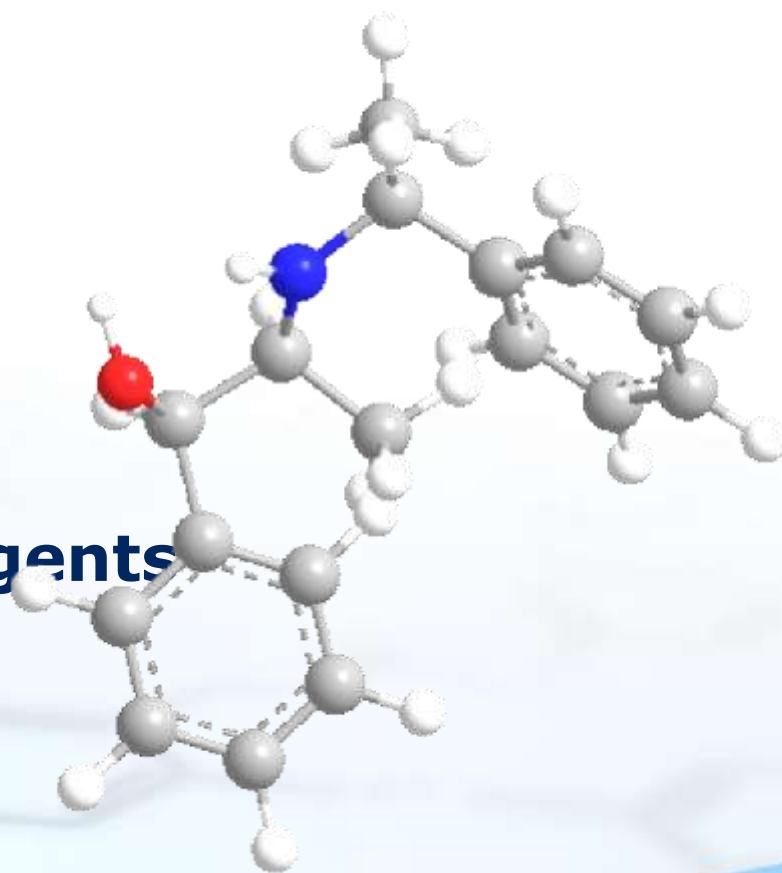
- ❖ Tartaric acid Derivatives
- ❖ Half amides
- ❖ Glutamic acid
- ❖ Mandelic acid

❖ **D. Designer Resolving Agents**

- ❖ 1,2-diamines

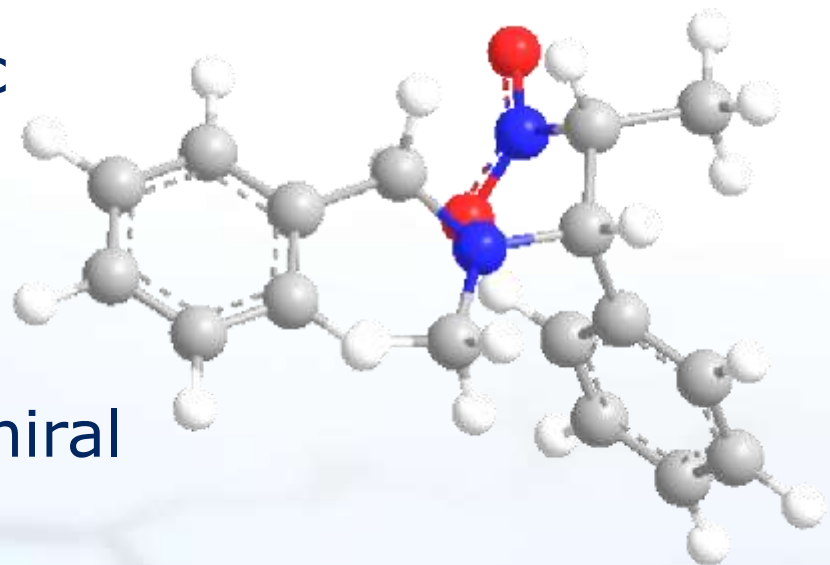
❖ **E. Asymmetric Ligands**

- ❖ Oxazolidinone
- ❖ Dialkyl amino alcohols



MEDICINAL CHEMISTRY EXPERTISE

- ❖ Heterocyclic & hetero aromatic chemistry
- ❖ Peptide Chemistry
- ❖ Natural products chemistry
- ❖ Resolution of enantiomers & chiral synthesis
- ❖ Asymmetric synthesis






Key Milestones

- ❖ R&D activity started in May 2018
- ❖ Manufacturing activity started at site in Feb' 2020
- ❖ First patent : Process for preparation of 1- substituted aryl-2-amino alcohols
- Provisional Filed on: 12th June, 2019, Application No: 201941023301
- Final Patent Filed on: 15th June, 2020, Application No: 201941023301/vl/Patent 221
- Facility has been audited (virtual/on-site) and approved by customers like Mirati, Alkem, Anthem biosciences ,Biocon and Piramal

Accreditations

- ❖ R&D is recognized by Department of Scientific and Industrial Research (DSIR)

 <p>सूचना का अधिकार RIGHT TO INFORMATION</p>	<p>सूचना/Tel : 26602819, 26607373 (EPABX) : 26605604, 26602133 : 26605607, 26602144 : 26602134, 26602122 सूचना/FAX : 26600629, 26629745 Website : http://www.dsir.gov.in</p>	 <p>भारत सरकार विज्ञान और औद्योगिक मंत्रालय वैज्ञानिक और औद्योगिक अनुसंधान विभाग टेकनोलॉजी भवन, नया महरौली मार्ग, नई दिल्ली - 110016 GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY Department of Scientific and Industrial Research Technology Bhavan, New Mehrauli Road, New Delhi - 110016</p>
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Dated: 6th October, 2021

F. No. TU/IV-RD/4510/2021

To
M/s. Anvitha Life Care Pvt. Ltd.
Plot No. 6, Industrial Park, Attivaram (V),
Ozili (M), Naidupeta,
SPSR Nellore – 524 402
(Andhra Pradesh)


Subject: RENEWAL OF RECOGNITION OF IN-HOUSE R&D UNIT(s)

Dear Sirs,

This has reference to your application for renewal of recognition of your in-House R&D unit(s) beyond 31-03-2021 by the Department of Scientific and Industrial Research.

2. This is to inform you that it has been decided to accord renewal of recognition to the in-House R&D unit(s) of your firm at **Plot No. 6, Industrial Park, Attivaram (V), Ozili (M), Naidupeta, SPSR Nellore (D) (Andhra Pradesh)** upto 31.03.2024. Terms and conditions pertaining to this recognition are given overleaf.

3. Kindly acknowledge the receipt of this letter.

Yours faithfully,

(Dr. P. K. Dutta)
Scientist - 'F'

ISO Certification



Certificate of Registration

*This is to certify that the
Quality Management System
of*

M/s ANVITHA LIFE CARE PRIVATE LIMITED

**Plot No.6, Industrial Park, Attivaram (V), Ozili (M), Naidupeta,
Tirupathi District-524 421, Andhra Pradesh, India**

has been assessed and conforms to
the requirements of Documentation of:

ISO 9001:2015

for the following activities

**Research & Development, Manufacture of Active
Pharmaceutical Ingredients (API) and Intermediates**

Certificate Number : 13363-AQMS-3463

Original Certification Date : 06/02/2020

1st Surveillance Due on : 02/02/2024 Done on: *Not Yet Due*

Revised Certification Date : 23/01/2023

2nd Surveillance Due on: 01/02/2025 Done on: *Not Yet Due*

Certificate Expiration Date : 05/02/2026

As per the rules of ISO it is mandatory to get both 1st & 2nd surveillance audits done at least 10 days before the due date. If surveillance audit is not done till due date of both "1 & 2 SURVEILLANCE DUE DATES" then this certificate shall become invalid on the due date. The client should send a proposed date for each surveillance audit at least 15 days before the due date at the email given below.



Georgy Mochalov

Certification Manager

The validity of this certificate is contingent upon the condition that the client has understood & agreed and shall abide by contract agreement, certification agreement, Master agreement for certification services and logo rules as given on our website www.maxacema.org. It applies only to the documentation maintained by the client and it does not substitute the design or product testing or examination procedures, what so ever. The certificate remains valid until the manufacturing conditions and the quality systems are not changed. This certificate validity is subject to positive results of surveillance audit. The client is requested to check the above certificate details at our above mentioned website and also on www.globalaccreditationboard.org under the heading of Register & sub heading of certified organization by entering their certificate number and to inform us in case of any discrepancy at our above email id.



**INTERNATIONAL
COUNCIL OF
ACCREDITATION
BODIES**

Acema Management Systems Pvt. Ltd.

Corp. Office: DBS Corporate Centre, 11 Floor,
Rajeeva Chambers, Free Press Journal Road, No.213,
Nariman Point, Mumbai - 400 021, India.

Website : www.maxacema.org

Email : contact@maxacema.org, directo@maxacema.org

GMP Certification



GOVERNMENT OF ANDHRA PRADESH
DRUGS CONTROL ADMINISTRATION



Office of the Deputy Director,
Drugs Control Administration,
Kurnool Region, Kurnool,
Kurnool District-518003.

L. Dis. No.HMF07-19024/222/2023-DD-DDCA

Dated: 30.09.2023.

G.M.P. CERTIFICATE

This is to certify that M/s ANVITHA LIFE CARE PRIVATE LIMITED, Situated at Plot No.6, Industrial Park, Attivaram (Village), Ozili (Mandal), Naidupeta, Tirupati District-524 421, Andhra Pradesh, India is holding Drug Manufacturing License In Form-25, bearing License No.63/NL/AP/2020/B/G, Dated: 24/10/2020, Valid up to 23/10/2025 to manufacture for sale or for distribution of Drugs other than those specified in Schedule C, C (I) and X approved by this department.

The company is following 'GOOD MANUFACTURING PRACTICES' as stipulated under the provisions of Schedule 'M' of Drugs and Cosmetics Rules, 1945 as per as applicable for the products permitted under the License as per the Inspection report dated:22/09/2022 of the Drugs Inspector, Tirupati (U), Tirupati District.

The company should however carry out self-inspection from time to time to ensure that the requirements of Good Manufacturing Practices are complied with:

This is valid for one year from the date of issue of this certificate.

VELPULA
VIJAYA SEKHAR

DEPUTY DIRECTOR & CERTIFYING AUTHORITY,
DRUGS CONTROL ADMINISTRATION
KURNOOL REGION, KURNOOL

Digitally signed by Velpula Vijaya Sekhar
DN: cn=Velpula Vijaya Sekhar, o=Drugs Control Administration, ou=Kurnool Region, email=Velpula.Vijaya.Sekhar@dcad.ap.gov.in, c=IN



To,
M/s ANVITHA LIFE CARE PRIVATE LIMITED,
Situated at Plot No.6, Industrial Park, Attivaram (Village),
Ozili (Mandal), Naidupeta, Tirupati District-524 421,
Andhra Pradesh, India.

Copy submitted to the Director General, Drugs and Copy Rights, DCA, Vijayawada for favour of kind information.

Copy submitted to the Director, Drugs Control Administration, Vijayawada for favour of kind information.

Copy to: the Assistant Director, Tirupati & Drugs Inspector, Srikalahasthi for information.

Skill Development

At Anvitha we always believe in "Empowerment through Education".

To make this possible, Post graduates/graduates will be trained to develop their skills in drug research during curriculum along with our employees. Interested employees will be guided for doctoral research.

Signed MOU with below mentioned colleges for training and recruitment

- **D.K.W College , Nellore.**
- **Padmavathi college of Pharmacy, Tirupati**
- **SriVishwodaya Degree college, Venkatagiri, Tirupati.**

PRODUCT PORTFOLIO-INHOUSE DEVELOPED

Active Pharmaceutical Ingredients

S.No	Product	Therapeutic Use
1	Phenylephrine (CAS: 59-42-7)	Cough suppressant
2	Triprolidine Hydrochloride (CAS: 6138-79-0)	Anti-Histamine
3	Selegiline base (CAS: 14611-51-9)	For New Application
4	Selegiline Hydrochloride (CAS: 14611-52-0)	Anti-Parkinson'
5	Distigmine bromide (CAS:15876-67-2)	Parasympathomimetic
6	D-Norpseudoephedrine HCl(CAS: 2153-98-2)	Appetite suppressant
7	Tranexamic acid(Cas 1197-18-8)	Antifibrinolytic
8	Ursodeoxycholic acid(Cas 128-13-2)	To dissolve gallbladder stones
9	Isoxsuprine(Cas 395-28-8)	Vasodilator
10	L-Carnitine tartrate	Nutraceutical

API -Under development

S.No	Product	Therapeutic Use
4	Midodrine Hydrochloride (CAS: 43218-56-0)	Antihypotensive
5	Epinephrine Bitartrate (CAS: 51-42-3)	Neurotransmitter
6	Norepinephrine Bitartrate (CAS: 3414-63-9)	Sympathomimetic and neurotransmitter
7	Metaraminol Bitartrate (CAS: 54-49-9)	Anti-hypotensive
8	Lisdexamphetamine Dimesylate (CAS: 608137-33-3)	Attention Deficit hyperactivity disorder

The background features a light blue gradient with faint, semi-transparent molecular structures and spheres. Dark blue wavy borders are present at the top and bottom of the slide.

INTERMEDIATES & SPECIALTY CHEMICALS

S. No	Product	Therapeutic drug	Status
1	4-Hydroxy Coumarin (CAS: 1076-38-6)	Zonisamide and warfarin	Produced in 100kg multiple lots
2	Dimedone (CAS: 126-81-8)	Venetoclax	Produced several tons
3	2-Aminoethyl hydrogen sulphate (926-39-6)	Viloxazine	Developed
4	3-Chloro-5,5-dimethyl-2-cyclohexen-1-one (CAS: 17530-69-7)	Venetoclax	Produced several tons
5	(S)-1-(3,5-bis(trifluoromethyl)phenyl)ethanol (CAS: 225920-05-8)	Serlopitant	Produced in kilo scale
6	(R)-1-(3,5-bis(trifluoromethyl)phenyl)ethanol (CAS: 127852-28-2)	Aprepitant	Developed
7	(S)(+)-3-hydroxy tetrahydrofuran (CAS: 86087-23-2)	Afatinib / Empagliflozin	Under Development
8	R)(+)-3-hydroxy tetrahydrofuran (CAS: 86087-24-3)	Afatinib / Empagliflozin	Under Development
9	Ethyl-S-(-)chloro-3-hydroxybutyrate(86728-85-0)	Afatinib / Empagliflozin	Developed
10	Ethyl-R-(+)chloro-3-hydroxybutyrate (90866-33-4)	Afatinib / Empagliflozin	commercialized

S. No	Product	Therapeutic drug	Status
11	4-(Aminomethyl)benzoic acid (CAS: 56-91-7)	Tranexamic acid	Developed
12	Methyl-3-oxopentanoate (CAS: 30414-53-0)	Strontium ranelate	Developed
13	(R)-Naphthylethylamine (CAS: 3886-70-2)	Cinacalcet	Developed
14	(1R,2S)-Pyrrolidinyl norephedrine (CAS: 127641-25-2)	Efavirenz	Developed and produced
15	(1R,2S)- Norephedrine (CAS: 492-41-1)	Droxidopa	Produced in ton lots
16	Methyl-6-bromo-2-naphthoate (CAS: 33626-98-1)	Adapalene	Developed
17	Methyl-3-Oxohexanoate (CAS: 30414-54-1)	Specialty Chemical	Pilot scale
18	N,N-Dibenzylethanolamine (CAS: 101-06-4)	Specialty Chemical	Developed

S.No	Product	Use	Status
19	N-Benzylethanolamine (CAS: 103-64-2)	Gadobuterol	commercial
20	N-Benzyl-2-Pyrrolidinone (CAS: 5291-77-0)	Specialty Chemical	Developed
21	L-Prolinol (CAS: 23356-96-9)	Adagrasib	commercial
22	N-Methyl-L-Prolinol (CAS: 34381-71-0)	Adagrasib	commercial
23	1,4-Butane Sultone (CAS: 1633-83-6)	Indocyanin/Remd esivir	commercial
24	(1R,2R)-1,2- Cyclohexanedimethanol (CAS: 65376-05-8)	Lurasidone	Developed
25	3-(4-Chlorophenyl)propionic acid (CAS: 2019-34-3)	Pitolisant	Pilot

S.No	Product	Use	Status
26	1-[3-{2-(dimethylamino) ethyl}-1H-indol-5-yl]-N-methyl methanesulfonamide(103628-46-2) (Sumatriptan base))	Sumatriptan succinate	commercial
27	(R)-5-(2-Aminopropyl)-2-Methoxy benzenesulfonamide (Cas112101-81-2)	Tamsulosin	commercial
28	2,3,4-Trimethoxybenzaldehyde (CAS:2103-57-3))	Trimetazidine	commercial
29	N-cyanoacetyl urethane (CAS:6629-05-4)	Diclazuril	Developed
30	Cyclene (CAS: 294-90-6)	Gadobuterol	Commercial
31	1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid (CAS:60239-18-1)	Gadoterate-meglumine	Developed
32	Trioxabicyclooctane (CAS:57280-22-5)	Gadobuterol	Developed

S.No	Product	Use	Status
33	Cyclopropane carboxaldehyde(1489-69-6)	Specialty chemical	Pilot
34	Trans-4-Methylcyclohexylamine[2523-55-9]	Glimepiride	Pilot
35	6-Nitro -4(3H)-quinazolinone (CAS:6943-17-5)	Tucatinib	Pilot
36	Ethyl 5-hydroxy-1,2-dimethyl-1H-indole-3-carboxylate (Mecarbinatate) [15574-49-9]	Umifenovir	Pilot
37	3-(4-Hydroxyphenylpropionic acid [507-97-3]	Landiolol	Pilot
38	(2S)-(+)-Glycidyl 3-nitrobenzenesulfonateCAS: 115314-14-2	Landiolol	Pilot
39	(S)-(-)-4-(Chloromethyl)-2,2-dimethyl-1,3-dioxolane CAS:60456-22-6	Landiolol	Pilot
40	N-(2-Aminoethyl)-4-morpholinecarboxamide ethanedioate-CAS: 154467-16-0	Landiolol	Pilot
41	3-(Bromomethyl)-3-methyloxetane(cas78385-26-9)	Specialty chemical	Commercial

Key Customers

1. Syntesia Chemie, Hamburg
2. Davos Pharma, USA
3. Anthem Bio Sciences, India
4. Mirati, USA
5. Matrix Fine Chemicals, Switzerland
6. Herbrand Pharma Chemicals, Germany
7. Norac Pharma, USA
8. Pharmabea s.r.l, Italy
9. Erregierre s.p.a, Italy
10. Medix, Mexico
11. A.R.Z Chemicals, Israel
12. Syngene, India
13. MSN Laboratories, India
14. Hetero Drugs, India
15. Aurobindo Pharma Limited, India
16. Malladi Drugs & Pharmaceutical Limited, India
17. Sun pharma Limited, India
18. Biophore India Pvt Limited, India
19. Alkem Laboratories, India
20. Piramal Healthcare, India
21. Hetero Healthcare, India
22. Biocon Limited, India
23. Caplin Point, India
24. Omgene, India
25. Gland Pharma, India
26. TEVA Pharma ,India
27. Avra Laboratories, India
28. DRL
29. Zenfold
30. Aexplora
31. Divis
32. Solara
33. Vanamali

Patents & Publications

1. An improved process for preparation of pharmaceutical grade Tannates, (Patent No. 203486) Dr.T.Prakasam, (2004)
2. An improved process for the Resolution dl-Ephedrine,(Patent No. 216649) Dr.T.Prakasam, (2004)
3. An improved process for preparation of Poly Lactic acid (Patent No. 216464) Joint patent with IIT Chennai. Dr.T.Prakasam, (2004)
4. A method for the preparation of New chiral beta-amino alcohols from R-(–)-phenyl acetyl carbinol, (IP249376) T.Prakasam,
5. Optically pure 1-N-alkylamino-1-phenyl-2-(1-pyrrolidiny)propane's and their synthetic processes, (IP251139) Dr.T.Prakasam,
6. Optically pure 1-alkyl/aryl-1-phenyl-2-methylamino propanol hydrochlorides and process for their preparation, (IP255479) Dr.T.Prakasam
7. Improved process for the preparation of d-threo-Ritalinic acid hydrochloride by resolution of dl-threo-Ritalinic acid using chiral carboxylic acid, (US8552030B2) Dr.T.Prakasam. (Granted)
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