



ENRICHED BY **EXPERIENCE...**  
EMPOWERED BY **RESEARCH.**



**ANUH PHARMA LTD.**  
R&D DIVISION

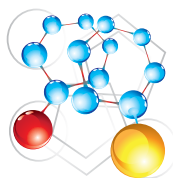


Anuh Pharma Ltd. is a part of the SK Group that has been serving the Pharma industry for over 80 years. Below are the activities of Anuh Pharma:



### **Bulk Drugs Manufacturing Unit at Tarapur**

Macrolides, Anti TB, Antibiotics, Anti Malarial



### **Research & Development Lab at Navi Mumbai**

Chemical Synthesis, Analytical Development, Pilot Plant



### **Exports to over 30 countries**

Including Europe, South Africa, Canada



### **Human Resource**

200+



### **Topline**

USD 40 Million +



### **Public Limited Company**

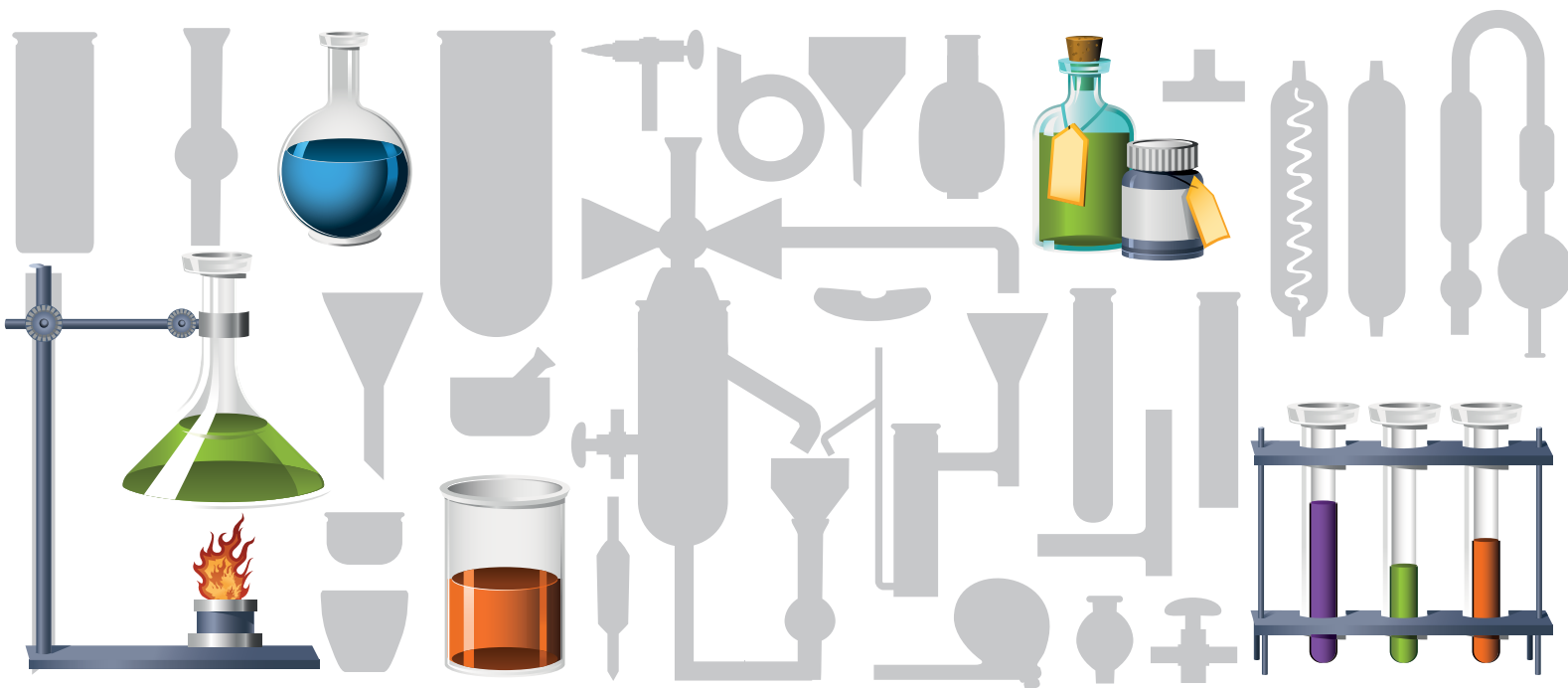
Bombay Stock Exchange

# Enriched by Experience... Empowered by Research.

Anuh Pharma is one of the leading manufacturers of Active Pharmaceutical Ingredients (API's). Established in 1989, the company has grown several folds over the last twenty years and achieved several credits besides of course, building a strong base of trust amongst its customers. It is now recognized as one of the largest producers of macrolides in the country.

Anuh Pharma's story has always been that of magnificent metamorphosis. The R&D Division is another feather in our cap. We believe that research lies at the heart of progress. This is especially true of the pharmaceutical industry. The state-of-the art facility has 3 labs: The Analytical Development Lab, The Chemical Synthesis lab and The Pilot Plant.

We have strengthened our commitment to research with the inauguration of this 10,000 sq. ft. division at Navi Mumbai. We are ready to fly higher with a brilliant past behind us and a wonderful future ahead! Indeed, Anuh Pharma is leaping ahead into the future – **Empowered by Research!**



# Analytical Development Lab

Reliable and reproducible analytical methods are essential to both the pharmaceutical development and the evaluation of drug product to meet the defined Industry Standards of potency, purity and stability. Analytical chemists work to develop, qualify and validate or refine analytical methods to meet these demands.

We have a state-of-the art analytical lab required for method development activities that lead to characterization and profiling of products. We have a young and passionate team which can be leveraged to suit the requirements.





## SERVICES OFFERED

- Product Analysis as per Pharmacopeias
- Impurity Profiling & Identification
- Particle size Analysis
- Analytical Method Development & Validation
- Residual Solvent Analysis
- Stability Studies
- Related substance Analysis
- Polymorphism Detection

## FACILITIES

- Stability Chambers
- Muffle Furnace
- Cooling Cabinets
- Deep Freeze Cabinets
- Milli-Q Ultra Pure Water System

## EQUIPMENT

- Gas Chromatograph
- HPLC with PDA Detector
- HPLC UV-VIS Variable Wavelength Detector.
- Particle Size Analyzer
- Polarimeter
- Spectrophotometer
- FTIR
- Differential Scanning Colorimeter
- Thermogravimetric Analyzer
- Potentiometric Autotitrator



# Chemical Synthesis Lab

The Chemical Synthesis Lab conducts lab scale reactions to develop processes and products. By physical and chemical manipulations involving one or more reactions, our chemists devise reliable, reproducible reaction processes that are scalable.



## SERVICES OFFERED

- Process Development & Method Improvements
- Isolation, Manufacturing & Characterization of Impurities
- Application of Statistical Designs from Process Development

## UTILITIES

- Fume Extraction
- High Vacuum
- Nitrogen
- Heating / Cooling

## EQUIPMENT

- All Glass Flasks upto 5 lt.
- Rotavapors
- Hot & Cold Water Baths
- Vacuum Ovens
- High Pressure Autoclaves from 1lt. to 3lt.
- Specialized Cylindrical Glass Flasks to mimic reactor conditions





## Pilot Plant

The Pilot Plant is well equipped with facilities to scale up processes developed in the Chemical Synthesis Lab and to facilitate the manufacturing of active pharmaceutical ingredients for clinical trials and validations.

### SERVICES OFFERED

- Scale-Up of processes developed in the Chemical Synthesis Lab
- Manufacturing of Active Pharmaceutical Ingredients for Clinical Trials and Validations

### FACILITIES

- Spot Extractors
- Epoxy anti-static flooring
- Data Loggers
- Scrubbers
- Huber Cryostat for Temperatures from -20°C to +200°C
- Chilling and Vacuum Systems
- Nitrogen Purging for Inert Atmosphere
- RO Water Purification System





## EQUIPMENT

- 100, 50 & 20 Ltrs Jacketed Glass Reactors with Condensers and Receivers
- Rotary Vacuum Dryer and S.S. 316 Multimill
- S.S. 316 Trolley mounted Centrifuges
- S.S. 316 Sparkler Filters
- S.S. 316 25 Ltrs High Pressure Reactor with Condenser and Receivers



## Reaction Capabilities

- Oxidation / Reduction
- Hydrogenation
- Vilsmeier - Haack
- Alkylation
- Condensation
- Nitration
- Grignard Reaction
- Cyclisation
- Acylation
- Diazotization
- Substitution
- Amidation

## Knowledge & Technology Support

In addition to the facilities, the lab derives benefit from the services of excellent professionals and experienced advisors. Our sound infrastructure and systems ensure smooth working of the lab. We receive Uninterrupted Power Supply and we have a DG set to ensure continued undisturbed reactions. The Effluent Treatment Plant adheres to environment friendly guidelines. In fact, we use all the treated water for gardening purposes thereby reducing the lab's carbon footprint. The area is also monitored continuously by CCTV. Fire Alarm System and Firefighting systems are in place as per norms.

We have a confidentiality policy in place which ensures complete secrecy of the processes undertaken by the lab. Our IT arrangements make it impossible for any data to be removed physically from our computers. All emails from and to the lab are also monitored. With this state of the art facility, enriched by excellent staff and systems, we are confident of enriching the industry with our research.

We have made a beginning, if you have a need we have spare capacity.

# Product List

## MACROLIDES

- Erythromycin Base  
COS EU GMP Available
- Erythromycin Estolate  
COS EU GMP Available
- Erythromycin Ethyl Succinate  
COS EU GMP Available
- Erythromycin Propionate
- Erythromycin Phosphate
- Erythromycin Stearate
- Erythromycin 11, 12 Carbonate

## HIGER MACROLIDES

- Roxithromycin
- Azithromycin
- Clarithromycin



## CORTICOSTEROIDS

- Betamethasone Sodium Phosphate
- Betamethasone Valerate
- Betamethasone Dipropionate
- Betamethasone Acetate
- Clobetasol Propionate
- Clobetasone Butyrate
- Beclomethasone Dipropionate
- Dexamethasone Sodium Phosphate
- Dexamethasone Acetate
- Prednisolone Acetate
- Prednisolone Sodium Phosphate
- Deflazacort
- Mometazone Fuorate
- Fluticazone Propionate

## ANTI BACTERIAL

- Chloramphenicol
- Chloramphenicol Palmitate

## ANTI TB DRUG

- Pyrazinamide  
COS EU GMP Available

## ANTI MALARIAL

- Sulphadoxin

## INTERMEDIATES

- Erythromycin Oxime Base
- Iminoether (Int. Azithromycin)
- Silylester (Int. Clarithromycin)

## LOCATION MAP: R&D



### HEAD OFFICE

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### R&D LAB

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### MANUFACTURING UNIT

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