

# Senores

Committed to Global Wellness!

— API Division —

# API at Senores

Senores Group has a decade of experience in manufacturing and developing across a diverse range of therapeutic segments and is equipped with technologically advanced manufacturing facilities and systems.

**Our API operations can be divided into different segments:**



**R&D**



**Manufacturing Unit**



**Quality Testing**



**Warehousing & Packaging Unit**

## Our Mission

To bridge the gap between affordable healthcare and accessibility of niche category products.

**Offer cost-effective, high-quality API development and delivery**

**Establish our presence in the global pharmaceutical supply chain**

**Commit to Environmental, Health, Safety (EHS) compliance and continuous cost optimisation**

**Expand into new markets and therapy areas**

**Foster an inspiring and rewarding work culture**

## API Capabilities

**R&D Centre at Ahmedabad**

### Chemical Synthesis, Analytical Development, Pilot Plant

Fully integrated Active Pharmaceutical Ingredient (API) R&D centre suitable for performing a variety of reactions over broad and pressure-temperature ranges

Dedicated team of scientists to develop non-infringing processes from gram scale to kilogram scale synthesis of APIs and key intermediates

Robust Analytical R&D division with advanced and up-to-date technology instruments

### Core Chemistry Competencies

- Coupling Reactions
- Friedel-Craft Reactions
- Grignard Reactions
- Bromination
- Chlorination
- Enzymatic Reaction
- Diazotization
- Reduction Reactions
- Oxidation Reactions
- Esterification & Hydrolysis Reactions
- Chiral Synthesis & Resolutions
- Nitration

# Production Facility

**Total capacity to produce finished API up to 125 MT/YR**

New greenfield state-of-the-art manufacturing facility

Zero liquid discharge (ZLD)

Production capacity ~40KL spanning 18,000 Sq. Mtr.

Separate areas for intermediate and API production

Two dedicated Class-D cleanrooms for high scale and small-scale batches

Manufacturing standards compliant with 21 CFR Part II

Plant reaction handling capacity from -20°C to 160°C

## Analytical Development & Quality Control Lab

Facility	Equipment
<ul style="list-style-type: none"><li>• Milli-Q Ultra-Pure Water System</li><li>• Muffle Furnace</li><li>• Cooling Cabinets</li><li>• Deep Freeze Cabinets</li><li>• Stability Chambers</li></ul>	<ul style="list-style-type: none"><li>• HPLC with PDA Detector</li><li>• Gas Chromatograph</li><li>• HPLC UV-VIS Variable Wavelength Detector</li><li>• Polarimeter</li><li>• Spectrophotometer</li><li>• FTIR</li><li>• Potentiometric Auto Titrator</li></ul>

## Manufacturing plant

Key equipment's in Production Plant	Facility for Small Volume, High Value Batches	Key Utilities
<ul style="list-style-type: none"><li>• SS Reactors from 0.1 kl to 5 kl</li><li>• MSGF from 1.6 kl to 5 kl</li><li>• Centrifuge from 36" to 48" Size</li><li>• Air Tray Driers with 200 kg Capacity</li><li>• Vacuum Tray Driers with 200 kg Capacity</li><li>• Pressure Nutsche Filter 0.15 kl to 0.5 kl Capacity</li><li>• Micronization Facility</li><li>• Blender</li><li>• Multimill</li><li>• Sifter</li></ul>	<ul style="list-style-type: none"><li>• Batch size: 5 kg to 50 kg Output</li><li>• Clean Area: Class D</li><li>• Glass Assembly 200 L with Temp. -20°C to 200°C</li><li>• Pressure Nutsche Filter</li><li>• VTD, Sifter, Multimill, Blender</li></ul>	<ul style="list-style-type: none"><li>• HVAC System</li><li>• Purified Water Plant</li><li>• Boiler</li><li>• Hot Water System</li><li>• Chiller -20°C</li><li>• Softner</li><li>• Cooling Tower</li><li>• Dedicated ETP Plant with MEE</li><li>• High Vacuum System</li><li>• Air Compressor</li><li>• Nitrogen Generation Plant</li></ul>

## Key Features of the Facility

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Facility designed for multiple product manufacturing



Class 100,000(ISO 8) cleanroom modules with 0.3-micron terminal HEPA filters



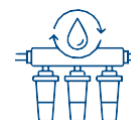
Separate entries for man and material Airlocks at all entry areas



Two-pass RO system and Electro-Deionizer for purified water



Ensuring strict adherence to USP and EP standards



Closed ambient loop systems for purified water

## API Products

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Benfotiamine  
Fluoxetine HCl  
Nicardipine HCl  
Imatinib Mesylate  
Tofacitinib Citrate

Letrozole  
Anastrozole  
Aripiprazole  
Mesalamine  
Rivaroxaban

Oxcarbazepine  
Desloratadine  
Tamsulosin HCl  
Clomiphene Citrate  
Desvenlafaxine Succinate

## Product List

### Active Pharmaceutical Ingredients (APIs) - Commercial

Commercial APIs	Grade	Therapeutic Category	CAS No.	Commercialized
Anastrozole	IP/USP	Oncology	120511-73-1	Under Preparation
Aripiprazole	IP/USP/BP	Antipsychotic	129722-12-9	Yes
Benfotiamine	IHS	Vitamin B1, Nutritive Agent	22457-89-2	Yes
Clomiphene Citrate	IP/USP/BP	Ovulatory Stimulant	911-45-5	Yes
Desloratadine	IHS/USP/Ph.Eur.	Antihistamine	100643-71-8	Yes
Desvenlafaxine Succinate	USP/IHS	Antidepressant	386750-22-7	Yes
Fluoxetine Hydrochloride	IP/USP/BP/Ph.Eur.	Antidepressant	56296-78-7	Yes
Imatinib Mesylate	IP/BP	Oncology	152459-95-5	Yes
Letrozole	USP	Oncology	22071-15-4	Yes
Mesalamine	IP/USP/BP	Anti-inflammatory	102767-28-2	Yes
Nicardipine Hydrochloride	IP/USP	Cardiac	54527-84-3	Under Preparation
Oxcarbazepine	IP/USP/BP/Ph.Eur.	Anticonvulsant	28721-07-5	Yes
Rivaroxaban	IHS/Ph.Eur.	Anticoagulant	148553-50-8	Yes
Tamsulosin Hydrochloride	IP/USP	Alpha Blocker	106133-20-4	Yes
Tofacitinib Citrate	IH	Antirheumatic	477600-75-2	Under Preparation