

PORTON



Enabling the Public's Early Access to Good Medicines



Small Molecules

A Customer-Centric, Innovative and Reliable CDMO
with Global Solutions

OEB 1 to 5 | Sub-g to Metric-ton Scale | Pre-clinical to Commercial



Global End-to-End CDMO Solutions

Porton Pharma Solutions has evolved from Active Pharmaceutical Ingredients (APIs) to finished dosage forms (FDFs), remaining committed to a customer-centric approach by delivering seamless, cost-optimized CDMO solutions spanning the entire product lifecycle for global pharma and biotech partners.



5

Regulated Markets
Approval



18

Global Sites



4,200+

Global Employees



1,200+

R&D and TechOps



~2,200

Total Capacity (m³)



1,200+

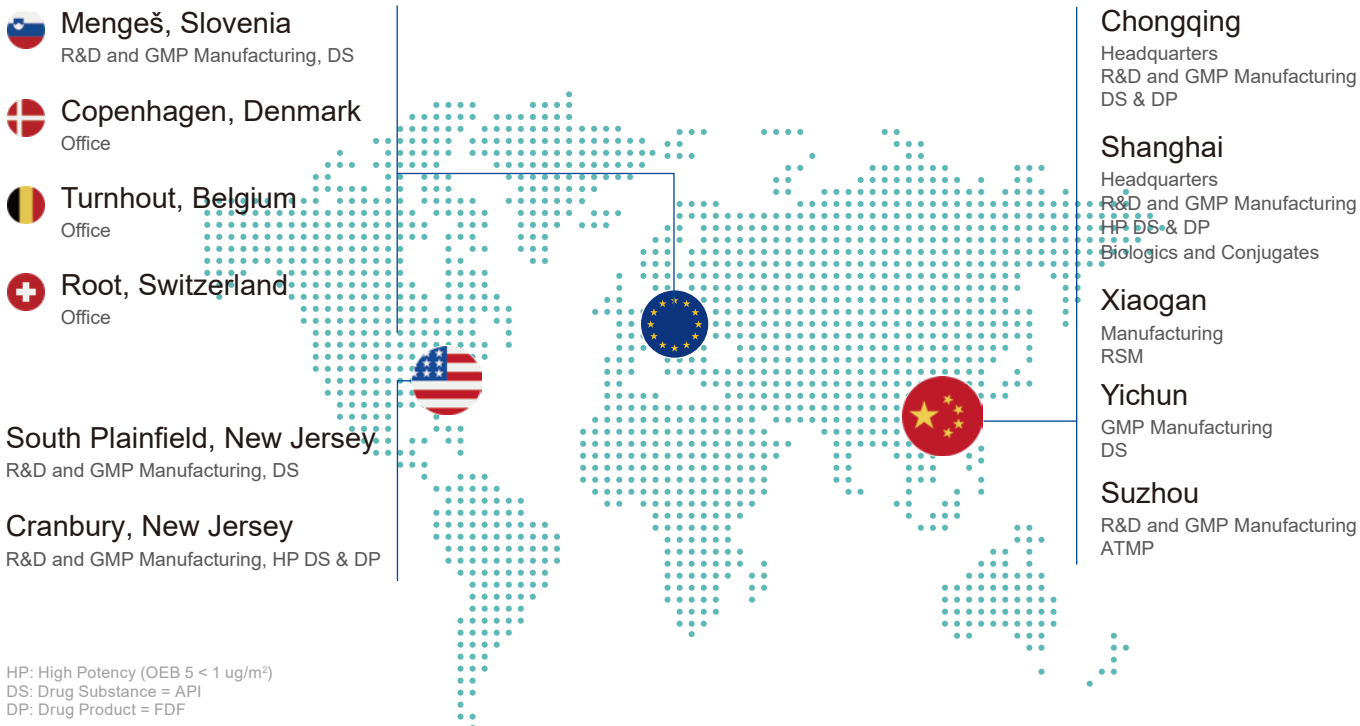
Global Customers



4,000+

Milestone Projects

Data as of December 31, 2024





We provide comprehensive pharmaceutical API development services across all lifecycle stages - from preclinical research to IND support, and Phase I to Phase III studies, and commercial technology transfer and manufacture.

- End-to-End Pharmaceutical Solution Experts
- Global Manufacturing Network
- Flexible Service Solutions for Supply Chain Security
- Strategic Partnerships with Top 20 Global Pharma and Biotech Companies

Global Production Capabilities

Seamless Scale-up from Lab to Commercial Manufacture

Site	Reactor Volume (m ³)	Reactor Volume Range (L)	Number of Reactors	Temperature Range (°C)	Reaction Pressure (Bar)	Description
Changshou, Chongqing	1,052.4	5 to 10,000	381	-93 to 200	-1 to 50	GMP
Fengxian, Shanghai	75.5	2 to 6,300	81	-80 to 200	-1 to 20	GMP/HP
Yichun, Jiangxi	519	200 to 5,000	221	-70 to 140	-1 to 25	GMP
Xiaogan, Hubei	565	1,000 to 6,300	122	-100 to 150	-1 to 2	non-GMP
New Jersey	1	5 to 100	18	-80 to 220	-1 to 0.95	GMP/HP
Total	2,212.9	2 to 10,000	823	-100 to 200	-1 to 50	-



Transparent Communication and Relationship Management

- 24/7 Technical Support Through Our Global Service Network
- Over 1,200 Scientists with Expertise Across Small Molecule APIs and Complex Intermediates
- Local Representatives that Fully Understand Local Business Cultures and Languages

Global State-of-the-art Technology Platform



Crystallization



Flow Chemistry



Bio Catalysis



Photo & Electrochemistry



Prep-Chromatography



Process Engineering



Milling



Metal Catalysis



Chemical Engineering and Technologies



Particle Engineering

- Controlled Particle Formation
 - Crystallization
 - Precipitation (amorphous)
 - DS-DP Co-processing (composite)
- Controlled Post Processing
 - Filtration, Drying, Milling, etc.



Material Science

- Solid Form Screen
- Solid State Chatterization
- Preformulation Evaluation
- Phase Relationship
- Structure Elucidation



Process Engineering

- Separation Processes (Column, Extraction, Distillation, Membrane, Filtration, Drying, etc.)
- Process Simulation
- Process Equipment Selection
- Continuous Process (Design & Control)
- Scale-up / Production De-risking



Reaction Engineering

- Reaction Kinetics
- Catalysis
- Reaction Simulation
- Reactor Design
- Reaction EHS



Computational Chemistry & Data Science

- Transition State, Reactivity and Selectivity Calculations
- Modeling of Phys-Chem Properties, Drug-Polymer Miscibility, Impurity Rejection
- ML-based DoE Process Optimization
- UV, IR, Raman and NMR Spectra Predictions
- Virtual Screens of Crystallization Process Solvent, Co-Former or Counterion
- AI/ML Data Analysis & Suggestion



Case Study

Rapid Launch of Innovative Drugs from Preclinical to Commercialization in 18 Months

Background

- Pre-clinical to Commercialization
- Complex Synthesis Involving Over 20 Steps

Highlights

400+ mt

Products Produced,
Output Surged in 6
Months

5

Synthetic Routes

150+

TCs & Reports with
Development and
Commercial Teams

20+

Generation Processes

Achievement

20%

of Total Separation
Steps Reduced Through
Route Optimization

+25%

Increase in Capacity Achieved
Through Process Mass Intensity
(PMI) Reduction and Equipment
Optimization

+30%

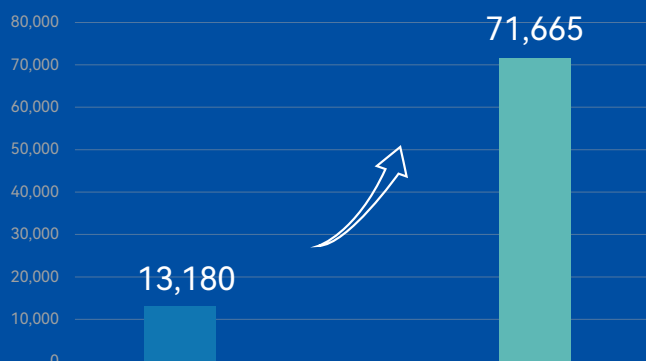
Overall Yield Improved

500-1,000 kg/Batch
Batch Size Achieved

Scan for Details



Monthly Output (kg)





Operational Excellence

📁 Intellectual Property

🌿 Environmental Health & Safety

🌟 Quality System

📋 Regulatory Affairs

📁 Project Management

🔄 Supply Chain

Global Site Compliance



Linked in



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