PORTON

A CUSTOMER-CENTRIC, INNOVATIVE AND RELIABLE CDMO WITH GLOBAL SOLUTIONS

OEB 1 to 5

Sub-g to Metric-ton Scale

Pre-clinical to Commercial

PORTON

Enabling the Public's Early Access to Good Medicines



Small Molecules



Tides



Biologics & Conjugates



Advanced Therapy Medicinal Products

Linked in



business@portonpharma.com www.portonpharma.com

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About Porton

With over 4300 employees, Porton Pharma Solutions, a global company with R&D and GMP-compliant manufacturing facilities across the US, EU and China, provides customer-centric innovative and reliable CDMO solutions for Small Molecules, Tides, Biologics and Conjugates (ADCs, AOCs, PDCs, RDCs, etc.), and Advanced Therapy Medicinal Products from pre-clinical to commercial stages.

2017-2024

Transformed into a Global Leading CDMO

Acquired J-STAR Research Inc. (USA), Xiaogan Plant (China), Fengxian GMP Plant (China), and Building Slovenia GMP Plant (Europe)

2013-2015

Became a Public Company

1st USFDA Inspection Passed and Listed on Shenzhen Stock Exchange

2005-2008

Started CMO

Changshou (China) Site Started in 2006



Regulated Markets Approval



20+ Global Sites



4300+ Global Employees







2000+ Total Capacity (m³)



1000+ **Global Customers**



3500+ Milestone Projects



\$ **522** м 2023 Revenue

Global Presence

Mengeš, Slovenia
R&D and GMP Manufacturing, DS

Copenhagen, Denmark
Office

South Plainfield, New Jersey R&D and GMP Manufacturing, DS

Turnhout, Belgium

Cranbury, New Jersey
R&D and GMP Manufacturing, HP & DP

Root, Switzerland



Chongqing

Headquarters R&D and GMP Manufacturing DS, DP

Xiaogan

Manufacturing, RSM

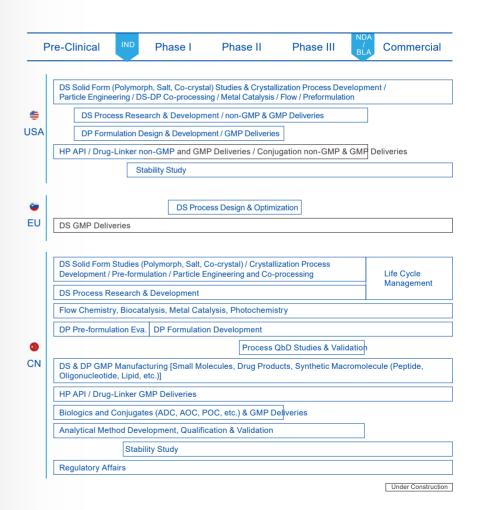
Shanghai

Headquarters
R&D and GMP Manufacturing
HP DS & DP
Biologics and Conjugates

Yichun

GMP Manufacturing, DS

Global Solutions with Capacity in USA, EU and China







Process Design, Route Scouting, Development and Optimization for APIs and Intermediates



Pre-formulation Research and Process Development & Optimization



Comprehensive Analytical R&D and Quality Control



non-GMP and GMP Manufacturing from Pre-clinical to Commercial for APIs and Intermediates



Pre-clinical to Commercial Batches GMP Manufacturing for Drug Product



IND/NDA Dossier and CMC Solutions

Drug Substance Capacity

Site	Reactor Volume (m³)	Reactor Volume Range (L)	Number of Reactors	Temperature Range (°C)	Reaction Pressure (Mpa)
Shanghai GMP/HP Fengxian	75.5	200 to 6,300	46	-80 to 200	-0.1 to 5
Chongqing GMP Changshou	834.3	5 to 10,000	323	-80 to 200	-0.1 to 5
Jiangxi GMP Yichun	519	200 to 5,000	197	-70 to 140	-0.1 to 1.6
Hubei non-GMP Xiaogan	565	1,000 to 6,300	118	-100 to 150	-0.1 to 0.6
New Jersey GMP/HP	1	5 to 100	18	-80 to 200	-0.1 to 0.095
Total	1,994.8	5 to 10,000	702	-100 to 200	-0.1 to 5

Drug Product Capability and Capacity

Cranbury, New Jersey

Solubility Enhancement

- · Particle Engineering
- · Co-processing

Dosage Form Development

- · OSD
- Liquid & Lyo Powder

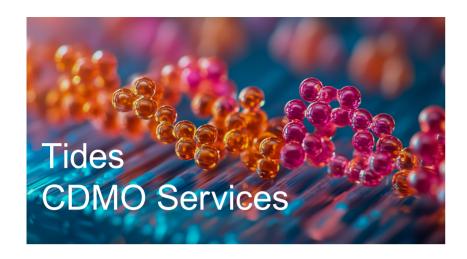
GMP Clinical Phase I & II Production

- · OSD
- Non-sterile Liquid

Beibei, Chongqing

Tablet	Capsule	Injectable	Semisolid
• IR • MR • Double-layer Tablet	• IR • MR • Micro-pellet Filler	Ampoule Vials for Powder & Liquid	CreamOintmentGel PasteGel Patch
• 1 B doses • 60 M doses (HP)	• 200 M doses • 60 M doses (HP)	• 55+ M units	• 50+ M tubes

(Maximum Annual Output Capacity)





Peptides

- · Linear Peptides (<50 aa)
- Cyclic Peptides (<50 aa)
- · Peptide Modification
- · Key RSMs and Intermediates



Oligonucleotides

- Aptamer
- sgRNA
- · Oligo Modifications



Drug Delivery Materials

- · Lonizable Lipids / Cationic Lipids
- · Polymers for Drug Delivery
- Complex/Conjugate Polysaccharides
- · Other Lipids



- · ASO. siRNA
- miRNA



Payload

- Cytotoxic Drugs
- Oligonucleotides
- Radionuclide
- Fluorescers



· Antibody

Peptide

Small Molecule

Biologics and Conjugates

CDMO Services

Conjugates

- ADC
- · AOC
- PDC
- RDC



Linker

- · Cys (-SH): S-S, Maleimide Group (mc, mcc, etc.)
- · Lys (-NH2): Activated Acid (CO-OSu, etc.)

Targeting-vehicle

• Short Peptide (VC, GFGG, etc.)



Early Stage Development Services



Process Development and DS Manufacturing



Formulation Development and DP Manufacturing



Analytical Development and QC



Regulatory **Affairs**



Early Stage Development Services



Process Development and DS Manufacturing



Formulation Development and DP Manufacturing



Analytical Development and QC



Regulatory **Affairs**





Plasmid

- · Supercoiled Plasmid
- Linear Plasmid
- LcDNA
- Off-the-shelf GMP Helper Plasmids for Lentiviral Vectors



mRNA

- · Non-replicating mRNA
- · Self-amplifying mRNA
- Circular RNA
- LNP Formulation Library



Viral Vectors

- · Lentiviral Vectors
- · Adeno-associated Viral Vectors
- Adenoviral Vectors
- Al-guided AAV Library Construction and Screening



Investigator-Initiated Clinical Trial Services in China

- Connect with local authorities and medical institutions
- Support in reviewing the IIT study protocols
- Prepare documents as a CDMO partner to medical institution for project approval and NHC registry review
- Support in finding reliable necessary CRO and medical writing partners



Analytical Development and Testing

- · Physicochemical Testing
- Characterization Testing
- Microbiology Testing
- Molecular Studies
- Biochemical Testing
- Cell Functional Testing
- FACS Testing

Enabling Chemical Technologies

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

Material Science & Engineering

- · Solid Form Screen/Selection/Studies
- Characterizations of DS, Excipient, SD-DP Intermediate and DP
- · Pre-formulation Evaluation

Process Engineering

- · Process Simulation
- · Continuous Processing & Process Control
- Reactor and Equipment Selection/Design
- · Scale-up / Production De-risking
- Column & Membrane & Other Separations

B Reaction Engineering

- Reaction Kinetics, Mechanism/Pathway, Selectivity
- · Reaction Thermodynamics
- · Reaction Simulation
- · Reaction EHS (safety, e-factor, etc.)

Computational Chemistry& Data Science

- Molecular & Thermodynamic Simulations
- ML-based DoE. Statistical DoE
- · Other Computation Methodologies

Operational Excellence

- Audited by 8 of Global Top 20 Pharma (100% Success Rate)
- ISO27001 Information Security Certification

© Environmental Health & Safety (EHS)

- · 180+ EHS Audits and Inspections
- 10+ Global Top 20 Pharma EHS Audits
- ISO14001 Environmental Management System
- ISO45001 Occupational Health and Safety Management System

Quality System

- One Porton One Quality System Strictly Following ICH Guidelines
- 5 Authorities GMP Inspections
- · 800+ GMP Audits of Customer
- GMP Audits by 17 of Top 20 Global Pharma (100% Success Rate)











- · 8 APIs Passed PAI and Approved
- · 60+ APIs of Successful PPQ
- 15+ On-going NDA Projects

⊟ Project Management

- · Customer-centric
- · Lifecycle Management
- Efficient and Transparent Communication

Supply Chain

- · Supply Chain Visibility
- · Back Integration
- · Local for Local Supply