

# Small Molecule API & Drug Product Services

## API Development and cGMP Manufacturing

- Process development, engineering and safety evaluation
- Analytical development and validation
- Non-GMP and cGMP API manufacturing
- Reactor size: 20 to 12,500 L

## Material Science

- Salt and polymorph screening
- Developability assessment
- Crystallization process development
- API characterization
- Hazardous materials handling

## Product Development

- Clinical oral solid dose supplies (OEB1-4)
- Solubility enhancement
- Formulation development
- Excipient compatibility
- Process development and scale-up
- cGMP clinical manufacturing, packaging & labelling

**Regulatory Approved**  
FDA, EMA, MHRA, PMDA, NMPA

**Facilities**  
US • UK • China

Pharmaron is a premier R&D and commercial service provider for the pharmaceutical, biotech and life science industries that offers a broad spectrum of research, development and manufacturing service capabilities throughout the entire drug discovery, preclinical, clinical development and commercialization.



Laboratory  
Services



Chemistry,  
Manufacturing  
& Control



Clinical  
Development



Biologics  
& CGT

## Pharmaron's End-to-end CMC Platform



API Process Development, Analytical Development & Process Safety



Material Science



API Manufacturing



Preformulation & Preclinical



Product Formulation & Analytical Development



Drug Product Manufacturing



Regulatory Support & Consultation

## Manufacturing Facilities

### China

#### Beijing

- cGMP kilo labs
- High potency cGMP lab
- Reactor size: Up to 300 L
- Batch size: Up to 80 kg

#### Shaoxing

- Clinical and Commercial Manufacturing
- Reactor size: Up to 12,500L

#### Tianjin

- cGMP manufacturing plant
- Reactor size: Up to 8,000 L

#### Ningbo

- cGMP pilot plant
- Reactor size: Up to 500 L
- Batch size: Up to 140 kg

### United States

#### Coventry, RI

- Clinical and Commercial Manufacturing
- Reactor size: Up to 7,600 L

### United Kingdom

#### Hoddesdon

- cGMP pilot plant
- Reactor size: Up to 1,000 L
- Product Development & GMP Manufacture (Oral Solids)
- Batch size: Up to 15 kg

#### Cramlington

- Commercial Manufacturing
- Reactor size: Up to 10,000 L