

PHARMORPHIX® Solid State Services





Our expertise in solid state pharmaceutical studies helps to enhance your drug discovery and development by enabling better products and a faster route to market.

Based in Cambridge UK, our state-of-the-art facility offers a full range of solid state research capabilities.

PHARMORPHIX® solid form benefits

CANDIDATE SELECTION

Identifying the optimal API form at the right stage to improve long term stability and enhancing drug delivery

BIOAVAILABILITY AND PHARMACOKINETICS ENHANCEMENT

Addressing physical property challenges through salt, polymorph and co-crystal screening

INTELLECTUAL PROPERTY

Building valuable additional protection around core product patents

REGULATORY SUPPORT

Delivery of critical inputs for key regulatory requirements for drug discovery, development and launch

ROBUST SCALABLE PROCESSES

Crystallisation process development, scale up and in-process testing to ensure reliability and compliance

PHARMORPHIX® solid form services

POLYMORPHISM SCREENING

- Reduced risk of failure during development
- Meeting regulatory requirements
- · Strengthened intellectual property

SALT SELECTION

- Effective development of drug candidates
- Improved bioavailability
- Enhanced physiochemical properties

CO-CRYSTALLISATION

- Unique API intellectual property protection
- Increased formulation stability
- Enhanced physiochemical properties

AMORPHOUS DISPERSIONS

- Increased solubility and bioavailability
- Stabilised amorphous forms
- Controlled particle size distribution

CRYSTALLOGRAPHY

- Dual source X-ray
- Assignment of absolute stereochemistry
- Structure determination from the smallest of crystals

PHYSICAL AND CHEMICAL ANALYSIS

- Assess the performance of novel crystalline forms
- Design-appropriate salt and co-crystal screens
- Investigation of alternative drug delivery routes

CHIRAL RESOLUTION

- Optimised enantiomeric excess of chiral products
- Rapid access to single enantiomers
- Enrichment of low ee materials

CRYSTALLISATION DEVELOPMENT

- Maximised processes yields
- Reliable crystalline form and morphology
- Controlled particle size distribution

