

COMING SOON

# Pre-formulation Services at Custom Materials Characterisation and Screening

## From pre-screening to commercial development

## Solid form Candidates

## Physiochemical Characterization

### *in silico*

Identifying optimal API form at the right stage, through low cost, low waste computational analysis

### Candidate selection and ranking

Synthesizing and characterizing candidates to assess bioenhancement, long-term stability and enhanced drug delivery

### Crystallisation development

Identification of critical process parameters to:

- Maximize process yields
- Control particle size
- Reliable crystal form and morphology

### Scale-up and manufacture

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

### *Polymorph Screening:*

- Reduced risk of failure during development
- Identification of optimal drug form
- Strengthen IP protection

### *Cocrystalisation:*

- Enhanced Physiochemical properties
- Improved long-term stability
- Unique API intellectual property protection

### *Salt Development:*

- Enhanced Physiochemical properties
- Improved stability
- Streamlined development of drug candidates

### *Amorphous dispersions*

- Stabilized amorphous forms
- Increased solubility and bioavailability
  - Immediate and controlled release

### *Thermal services:*

Full thermal suit including; DSC, TGA, DVS and HSM for full elucidation of thermal pathways, phase transition analysis and processing optimization

### *Particle sizing and morphology*

Laser particle sizing, and SEM Imaging laboratory for assessment of: Particle size, particle size distribution, flowability, and batch uniformity analysis of solids and liquids

### *Structural Analysis*

*Structure determination, identification, purity analysis and Rietveld refinements for full structure elucidation.*