



Crystal Pharmatech

ADVANCED CHARACTERIZATION

- **SCXRD**
 - Unambiguous 3d Structure
 - Patent protection
- **ssNMR**
 - Polymorph ID and conversion
- **MicroED**
 - Detailed Structure on nanocrystals
- **PK simulation**
 - Direct lab work using models
- **Polymorph Prediction**
 - Find lowest energy compounds to guide development

DRUG SOLID-STATE RESEARCH

- **Solid Form Screening and Selection**
 - Polymorph/Salt/Co-Crystal Screening
 - Thermodynamic Phase Relationship
 - Stability and Solubility Evaluation
 - Optimal Form Recommendation
- **Single Crystal Growth and Structure Determination**
- **Solid-State Characterization**
- **Form Identification and Quantification**

PROCESS R&D

- **Crystallization Development**
 - Purification
 - Particle Attributes Control
 - Polymorphic Isolation
 - Chiral Separation
- **Intermediate Crystallization Process Development**
 - Purification (Replace chromatography)
 - Increase Process Efficiency (less solvent, less time, increase scale)
- **Process Research & Optimization**
- **Custom Synthesis***

FORMULATION

- **Formulation Development for PK and Tox Studies (Solutions and Suspensions)**
- **Solubility, Bioavailability and Stability Enhancement:**
 - pH Adjustment
 - Solvent/Co-solvent
 - Surfactants/Complexing
 - Lipid Formulation
- **Amorphous Solid Dispersion studies**

ANALYTICAL RESEARCH

- **Baseline Characterization**
 - DSC, DVS, XRPD
- **Method Development**
- **Chiral Separation**
- **Physicochemical Property Determination**
 - pKa, LogP, LogD, solubility
- **Prototype/Probe/IND Stability Studies**
- **Dissolution Test**

FAST Focused Analytical Solids Testing

Need answers? We get them FAST!

- Results with interpretation
- Solve development challenges
- Competitive pricing

Crystal Pharmatech MatSci Tune-up Moving Drugs Forward

**A Complimentary Tune-Up
for New Clients**

- Second look at your form
- One-on-One Expert Advice
- Through Data Review
- Gap and Risk Identification
- Solutions Proposed

Choose Crystal Pharmatech to deliver a substantial impact on your development process.

BUSINESS OPTIONS



Crystal Pharmatech

	FEE FOR SERVICE	OPEN PO	FTE	FAST (TESTING SERVICE)
Scope of Work	<ul style="list-style-type: none"> Defined scope of work Drafted by experienced R&D and scientific BD Fit-for-purpose 	<ul style="list-style-type: none"> Defined core services to "Pick and Choose" Drafted by experienced R&D and scientific BD High flexibility 	<ul style="list-style-type: none"> Any core services from the list Highest flexibility 	<ul style="list-style-type: none"> Sample testing (XRPD, DSC, TGA, DVS, PSD, etc.) Fast turn-around
Timeline	<ul style="list-style-type: none"> 2-3 months (typical) 	<ul style="list-style-type: none"> 3-12 months 	<ul style="list-style-type: none"> 6-12 months 	<ul style="list-style-type: none"> 2-3 days (typical)
Report Timing	<ul style="list-style-type: none"> 1 month after experiments completed (typical) 	<ul style="list-style-type: none"> As needed 	<ul style="list-style-type: none"> As needed 	<ul style="list-style-type: none"> 2-3 days (typical)
Update /TCs	<ul style="list-style-type: none"> Bi-weekly/weekly Work summary 	<ul style="list-style-type: none"> Bi-weekly/weekly Work summary 	<ul style="list-style-type: none"> Bi-weekly/weekly or agreed upon Work summary 	<ul style="list-style-type: none"> N/A
Payment	<ul style="list-style-type: none"> Down payment when started and Final invoice after report Pay only for work completed 	<ul style="list-style-type: none"> Open PO Monthly or quarterly invoice Pay only for work completed 	<ul style="list-style-type: none"> Single blanket PO Monthly or quarterly invoice Pay only for work completed 	<ul style="list-style-type: none"> Pay after getting report

To get a quote or to set up a meeting, contact:
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