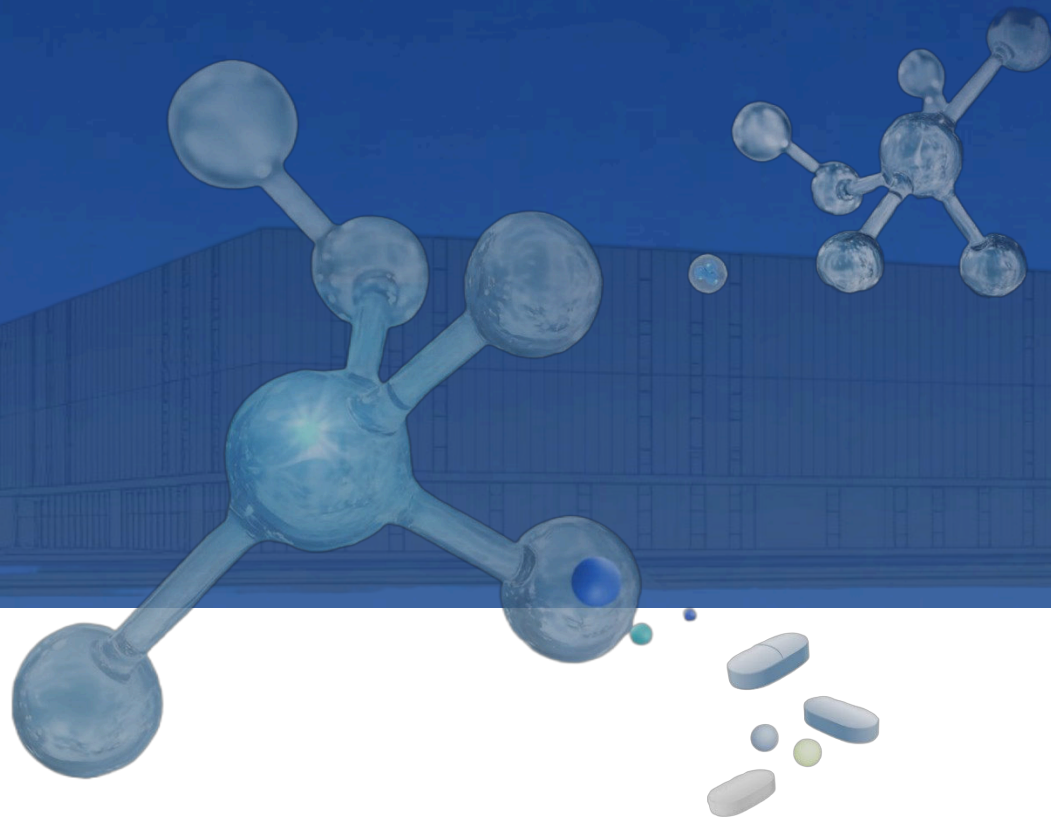


Crystal Pharmatech is a leading CRO/CDMO specializing in solid-state research, pre-formulation, and formulation, advancing your preclinical candidates to Phase I and beyond with a first-time-right approach.

2025 Capabilities & Services Overview



Crystal Pharmatech Overview



Specialized in API solid state research, pre-formulation, formulation development & GMP manufacturing



Worked with over **1,000** clients worldwide since 2010, including **8/10** of the largest multinational pharmaceutical companies.



Supported pharmaceutical development of over **2,000** drug molecules.



Leadership team with experience developing over **100** NCEs and commercialization of **15** drug products.



519,090 ft² total research and manufacturing facility space throughout USA, Canada, and China.





Polymorph/Salt/Co-Crystal Selection

- *“My molecule has multiple crystal forms — how do I know which one is best?”*
- *“I’ve chosen a polymorph, but what if a more stable one appears later?”*
- *“I’m not sure how many polymorphs exist — what risks does that create?”*
- *“How can I be confident I’ve identified the most stable crystal form?”*
- *“My compound forms an amorphous solid — should I stick with it or pursue a crystal form?”*
- *“Would a co-crystal strategy improve solubility, stability, or IP positioning for my compound?”*
- *“When timelines are tight, how do I balance speed with thoroughness in polymorph or salt screening?”*

**We
provide
solutions!**



Crystallization

- *“I scaled up crystallization and got a new form — what is the root cause?”*
- *“Company X is making our GMP API — how do we ensure that we will always make the same crystalline form?”*
- *“We’re starting our GMP API campaign in a month — can you help, or is it too late?”*
- *“We’re close to NDA filing — is it too late to fix solid-form issues?”*
- *“Our lab process gives needle-like crystals that filter poorly — how do we shift morphology/PSD for manufacturability without creating a new form?”*
- *“How do we de-risk hydrate/solvate formation during drying, milling, and packaging so warehouse humidity swings don’t trigger form conversion?”*



Preformulation



- *“I’m concerned about achieving tox exposures — why am I falling short?”*
- *“My in-vivo PK data doesn’t make sense. Could this be related to form or formulation?”*
- *“I’m not even sure what solid form was dosed in animals. What could go wrong later?”*
- *“We only have a few grams of API globally. How should we prioritize studies?”*
- *“Right now we’re using PEG and ethanol. Could that be a problem?”*
- *“We only have 50 mg of material. Can we still screen solid forms properly?”*
- *“I just want to get into GLP tox with an acceptable vehicle. What’s the fastest and most cost-effective way to do that?”*

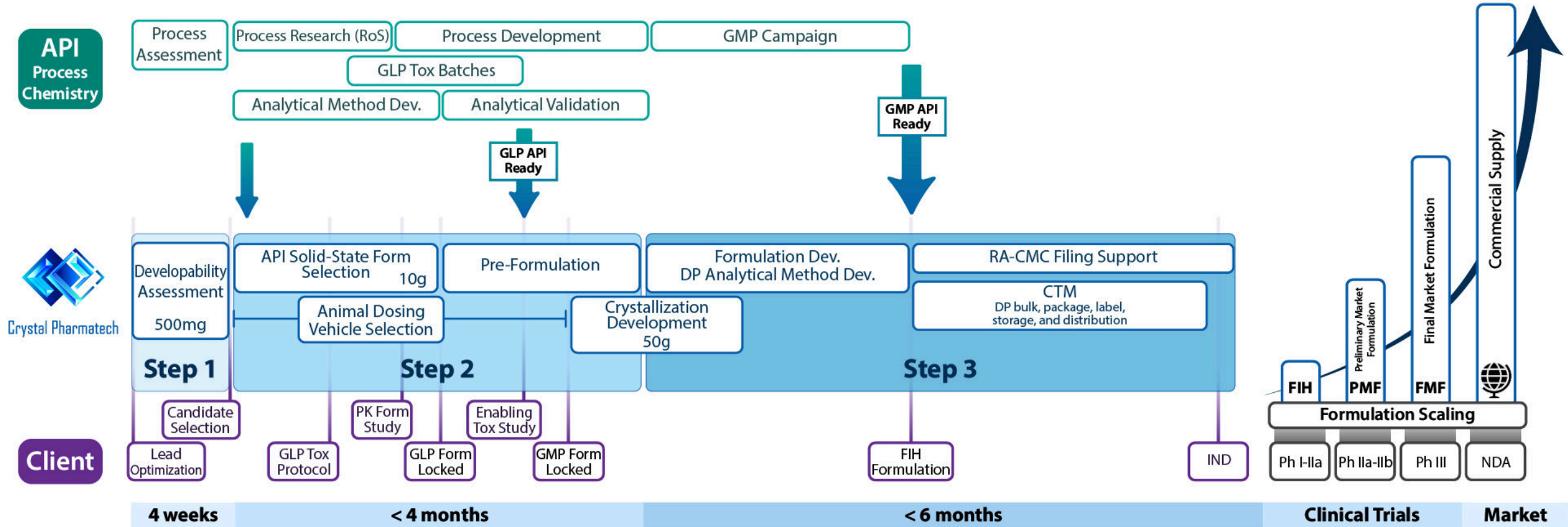
**We
provide
solutions!**



Formulation Development

- *“My formulation works in vitro but fails in vivo — could this be polymorph related?”*
- *“How do you align formulation development with the target product profile (TPP) and clinical study design?”*
- *“My API degrades quickly. How can I address this?”*
- *“I want to move fast to first-in-human — what hidden risks should I watch for?”*
- *“I’m planning a powder-in-capsule (PIC) formulation for our SAD/MAD study — is this the best path forward? Would moving to a tablet or capsule add significant cost and time to development?”*
- *“My CDMO says my compound is solubility- and permeability-limited. Does that mean I need an amorphous solid dispersion?”*

Mol2Med™ : First-time-right to FIH and beyond



FIH – First In Human

Step 1: Developability Assessment



Solid State Research and Developability Assessment

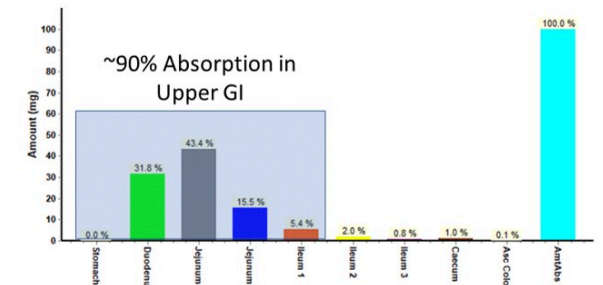
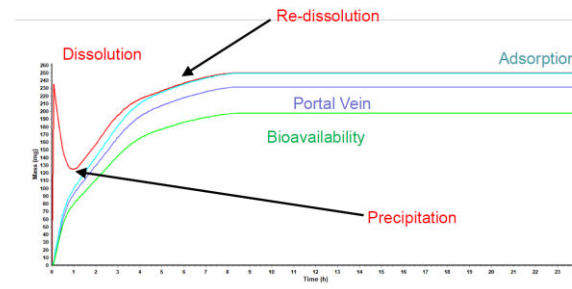
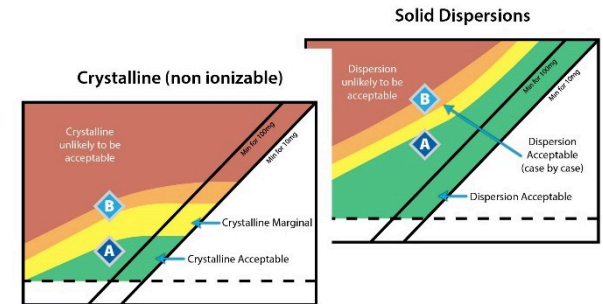
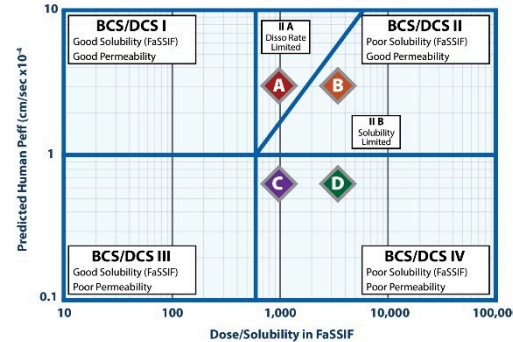
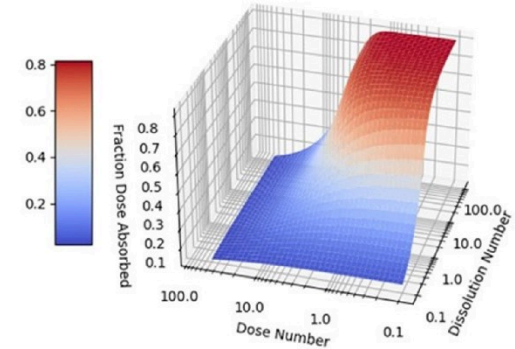
- pKa, Log P/D with Pion material-sparing automation
- Solid-state characterization
 - XRPD, TGA, DSC, PLM, DVS, PSD, Surface Area, SEM, KF, HPLC
- Fit for purpose HPLC analytical method
- Solubility
 - Biorelevant
 - pH-dependent
- Chemical and physical stability
- Industry benchmarking
 - Predicted fraction absorbed
 - Dose proportionality
 - BCS/DCS Classification
 - Dataset formulation outputs
- PBPK modeling
 - Regional absorption
 - Parameter sensitivity
- Detailed guidance for API solid-state form selection and formulation design

Animal Dose (mg/kg)	Preclinical Dose Number Compound A	Preclinical Dose Number Compound B
1	5.1	5.6
5	26.6	27.1
10	58.2	60.7
30	160.1	171.8
60	340.4	362.3
100	562.8	591.9
150	840.9	930.2
300	1649.3	1822.0
600	3421.7	3891.4
1000	5590.2	6110.1

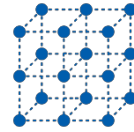
Dose Proportionality is Likely

Potential Risk of Reduced Exposure

Exposure Proportionality Risk



Step 2: Solid Form Screening, Crystallization and Pre-formulation



Solid Form Screening & Selection

- Solid form screening and selection
 - Polymorph/salt/co-crystal screening
 - Thermodynamic phase relationship
 - Stability and solubility evaluation
 - Optimal form recommendation
- Form identification and quantification
- Form de-risking
 - Crystal Structure Prediction, CCDC Snapshot
- Single crystal growth & structure determination
 - SXR, Synchrotron, and MicroED

Crystallization Development

- 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)
- Milling evaluation

Pre-Formulation

- Analytical research
- Method development
- Comprehensive physicochemical property evaluation
- Drug-excipient compatibility
- Formulation development for PK/PD and GLP Tox studies
 - Solutions and suspensions
- Animal dosing vehicle selection (solubility, bioavailability and stability enhancement):
 - Gavagability
 - Redispersibility evaluation
- Amorphous solid dispersion

Step 3: Formulation Development, Manufacturing and Clinical Supply



Formulation Development

- Conventional formulation
 - Direct compression
 - Dry and wet granulation
 - Tablet, capsule, pellet, bilayer
 - IR, CR
 - Topical formulations
- Enabling formulation
 - Amorphous Solid Dispersion (ASD): spray drying, hot melt extrusion
 - SMEDDS*
 - Micronization and nanocrystals
 - Long-acting Injectables
- Pediatric formulation (mini-tablet)
- Oral peptide formulation
- Compaction simulation
- Process scale-up & optimization
- FIH to commercial development



Analytical Development

- Method development and validation
- Release testing for raw material and drug product
- cGMP QC release and stability study
- Formal stability study (FSS)
- Extractables and leachables



GMP Manufacturing & Clinical Supply

- Capacity and capability:
 - Current: 0.5-120kg, OEB 3 and below
 - Upcoming: > 300kg
- CTM manufacturing
- Registration batch manufacturing
- Process performance qualification (PPQ) batch manufacturing
- Commercial manufacturing
- Clinical stability study
- Packaging:
 - Primary: Blistering, bottling, over encapsulation, mini tablets stickpack packaging
 - Secondary: Label & packaging design, blinded packaging solution, carton, wallet, etc.
- Storage and distribution, import/export, return and destruction, comparator sourcing



Regulatory Support and Other Services

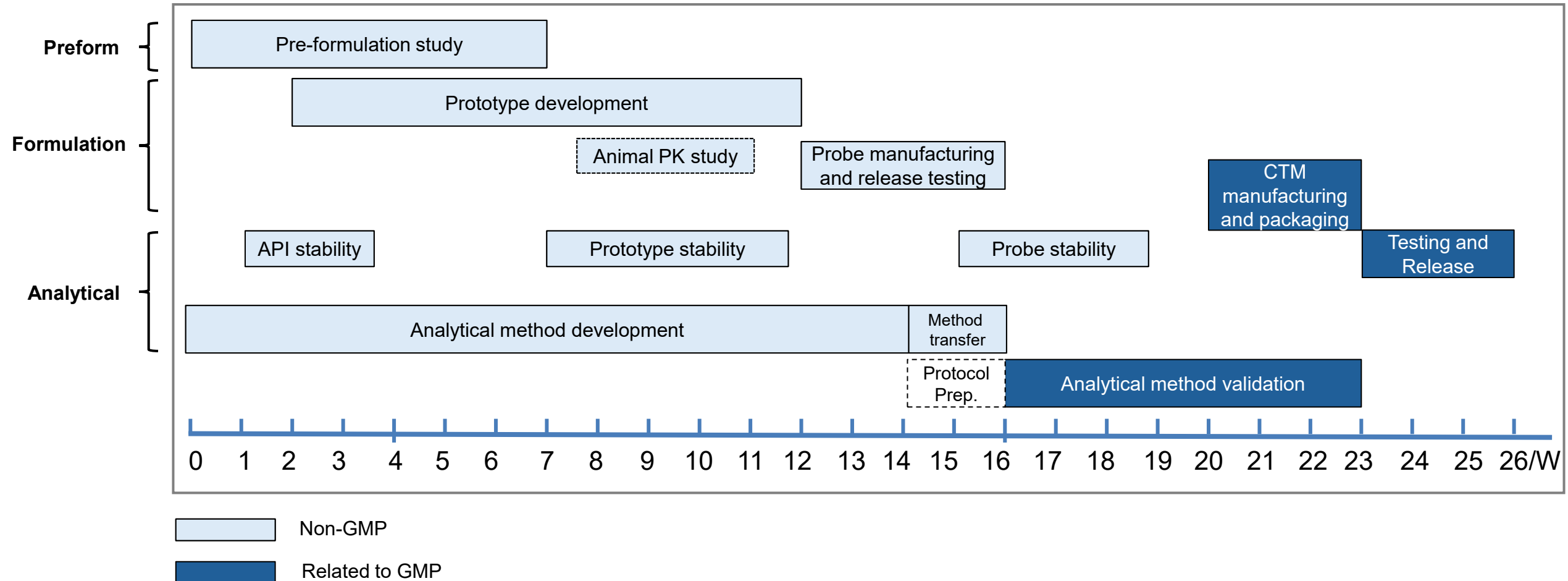
- Product Development Report
- Support CMC parts in IND, CTA and NDA authoring and Regulatory Support
- Technical consultancy on formulation development and feasibility

Standard Timeline (for FIH Formulation Package)


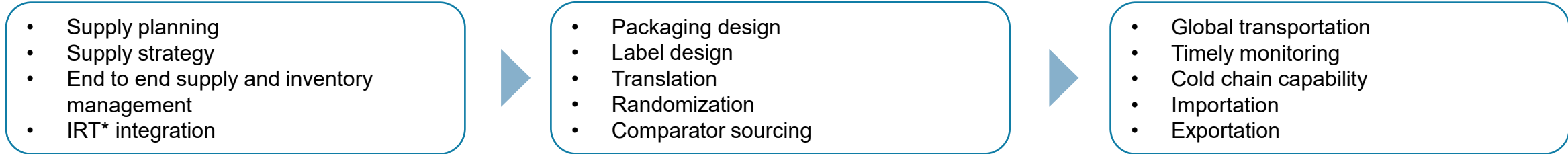


Conventional Formulation or Mini-Tablet Package (Preform + Formulation Development + GMP Manufacturing): **~6 months**

ASD Formulation Package (Preform + Formulation Development + GMP Manufacturing): **~7.5 months**




Clinical Supply Service



Primary Packaging

- GMP environment
- Blistering: alu-alu; alu-PVC
- Bottling
- Over encapsulation

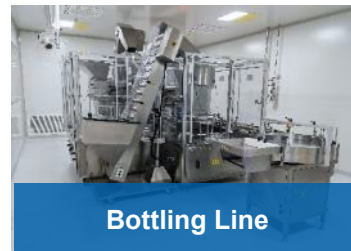


Secondary Packaging

- Match with protocol
- Double blind & double dummy
- GMP compliance
- Patient compliance
- Cost saving
- Flexibility

Package and Label design:

- Labels design: single panel, dual panel, wrap around, booklet labels
- Package design: Carton; Bottle labelling; Wallet card
- Package material: Outer carton and tamper seals



* IRT - Interactive Response Technology

Specialized Formulation Partner vs. One-Stop Shop CDMOs



Model	Pros	Cons
<p style="text-align: center;">Specialized Formulation Partner (as CP)</p>	<ul style="list-style-type: none"> • Direct access to leading formulation expertise • Equal or faster project timelines than one-stop shops • First-time-right formulations matching Target Product Profile • Senior experts with 20+ years' experience overseeing projects 	<ul style="list-style-type: none"> • Requires coordination with a separate API vendor • Multiple vendor qualifications may be needed
<p style="text-align: center;">One-Stop Shop CDMOs</p>	<ul style="list-style-type: none"> • Maybe single project team for API and formulation • Only one vendor qualification required • Simplified communication between API and formulation teams • Potential pricing leverage through bundled services 	<ul style="list-style-type: none"> • Few CDMOs excel equally in both API and formulation • Limited flexibility to select best-in-class partners • Formulations often designed only as “fit-for-purpose” for FIH, with weak late-stage path • Limited senior oversight; projects often handled by junior staff • Over-reliance on one CDMO for all CMC work

Solid-State Research Core Scientific Team



Alex M. Chen, Ph.D.
Co-Founder, Chairman & CEO

21 years of pharmaceutical research experience, including 8 years at Merck Research Laboratories and Merck Manufacturing Division. Obtained a B.S. in Chemistry from Peking University and a Ph.D. in Chemistry from Rutgers University

Expertise: Solid-state research, solid form screening, chiral resolution by crystallization, and nanoparticle delivery for gene therapy



Robert Wenslow, Ph.D.
Co-Founder, Chief Business Officer

26 years of experience in pharmaceutical development, including 14 years at Merck with various leadership positions. Headed the API group - Center for Materials Science and Engineering in Merck Manufacturing Division. Obtained a Ph.D. degree in Chemistry from Pennsylvania State University

Expertise: Solid-state NMR, drug characterization, crystallization development, IP protection; Expert witness on crystal form patent cases



Lianfeng Huang, Ph.D.
Chief Scientist

Over 30 years of experience in pharmaceutical development, including BMS, Celgene and J&J with various leadership positions in successfully leading pharmaceutical sciences departments and CMC project teams. Obtained a Ph.D. degree in Pharmaceutics from Iowa University

Expertise: Solid-state research, crystallization development, pre-formulation, formulation



Rositza Petrova, Ph.D.
Executive Scientific Director

15 years of working experience in Merck with various leadership positions including Leader of API Development Support Group - Center for Materials Science and Engineering in Merck Manufacturing Division, and Analytical Project Leader - Merck Animal Health. Obtained Ph.D. in Materials Science, Georgetown University

Expertise: API solid form screening/discovery, crystalline form selection, polymorphism, and chiral separations by crystallization



Combined Leadership: *100+ years of pharmaceutical leadership,
>60 years at Big Pharmas, founded by scientific experts*

Formulation Core Scientific Team



Decheng Ma, Ph.D.

CEO – CDMO Business Unit, China

25 years pharmaceutical industry experience with 22 years formulation development and CRO/CDMO/CMO vendor management experience at Merck (US) and MSD (China). Expertise on oral solid formulation development, analytical and clinical supply. Responsible for or supported over 30 new drug development, 5 of which were commercialized. Trained as Chemical Engineer at Lehigh Univ. (Ph.D.) and Tsinghua Univ. (B.S.).

Expertise: Oral solid dosage, amorphous solid dispersion, controlled release, analytical and clinical supply



Feng Li, Ph.D.

CSO – CDMO Business Unit, China

23 years of Phase I-III and commercial formulation development experience at Merck (US). Involved in over 50 small molecule NCE drug product development, 15 of which were commercialized. Significant expertise on oral solid dosage, powder mechanics, dry granulation and pediatric formulation. Trained as an engineer (mechanical leaning) at Penn State Univ. (Ph.D.) and China Agricultural Univ. (B.S.).

Expertise: Oral solid dosage, preclinical formulation powder mechanics, amorphous solid dispersion, dry and wet granulation, oral peptide, controlled release/extended release, mini-tablet based pediatric formulation



Yongqiang Li, Ph.D.

CEO – CDMO Business Unit, Canada

23 years of formulation development and management experience in innovative and generic pharmaceutical industries. Developed more than 30 products for global markets including First-to-Files, NCE, 505 b (2) and First-to-Markets. Ph.D. degree in Pharmaceutics and Drug Delivery from Faculty of Pharmacy, University of Toronto, Canada.

Expertise: Complex oral delivery systems, solubility/permeability enhancement, peptide delivery, bioequivalence, and alignment of nonclinical and clinical formulations for NCE drugs



Combined Leadership: 70+ years of pharmaceutical leadership, >50 years at Big Pharmas



Over 100 NCEs and 15 commercial drug products developed

Testimonials from U.S. Biotech & Pharma Clients



Los Angeles-Based CNS Biotech
Head of R&D

*"I have to say that the gratitude goes from me to your group. The formulation group has done a phenomenal job. I always knew that *** is a very bright person but the work he has done and the way he evaluated the compound and created the approach, the dosage route, in my opinion is spectacular. I can't say enough good things about your group but they're just really really super and you can quote me on that any time."*

Leading Drug Discovery Company
Director, Preclinical Development

"It was great working with the Crystal Pharmatech team on this project - we were very impressed with the speed, responsiveness and high quality of the data, project updates, and final report. We definitely look forward to working with you again in the future!"

Small Pharmaceutical Company
Head of CMC

"For a small company, cost is always an issue, but so is the use of scarce materials from early-stage programs. Crystal Pharmatech has so far delivered a huge amount of work at a very competitive price, and at the same time, has been parsimonious with the supply of materials sent (API, standards, etc.). I look forward to working with you on our current and future projects."

Small Drug Discovery Company
Senior Formulation Consultant

"Thanks to the Crystal Pharmatech team for this comprehensive write-up of the formulation studies with our compound and the very diligent work in running the studies under a compressed timeframe."

Mid-sized Pharmaceutical Company
Senior Associate Scientist

"I had a great first experience with Crystal Pharmatech. Tasks were completed rapidly and completely, questions were answered rapidly, and data was presented clearly. It was exactly what I had hoped for and more than I expected based on the pricing. I have paid more and received less from many other companies conducting this kind of work. I was very satisfied and look forward to working with Crystal Pharmatech in the future."

California-Based Biotech
CEO

"The formulation team's work, including compound evaluation, process development, and dose strategy selection and precise control, was outstanding, providing us with a perfect solution."

San Diego-Based Biotech
Chief Development Officer

"Fabulous work and for the constant communication updates. Truly appreciate it. Huge thanks to your team!"



Solid-State & Pre-formulation Capabilities



Focused Analytical Solids Testing (FAST) – Make Smarter Early Decisions with FAST

- Whether you're exploring multiple candidates or need early risk assessment without heavy investment, FAST offers **speed, confidence, clarity, and cost control**—all with minimal material.

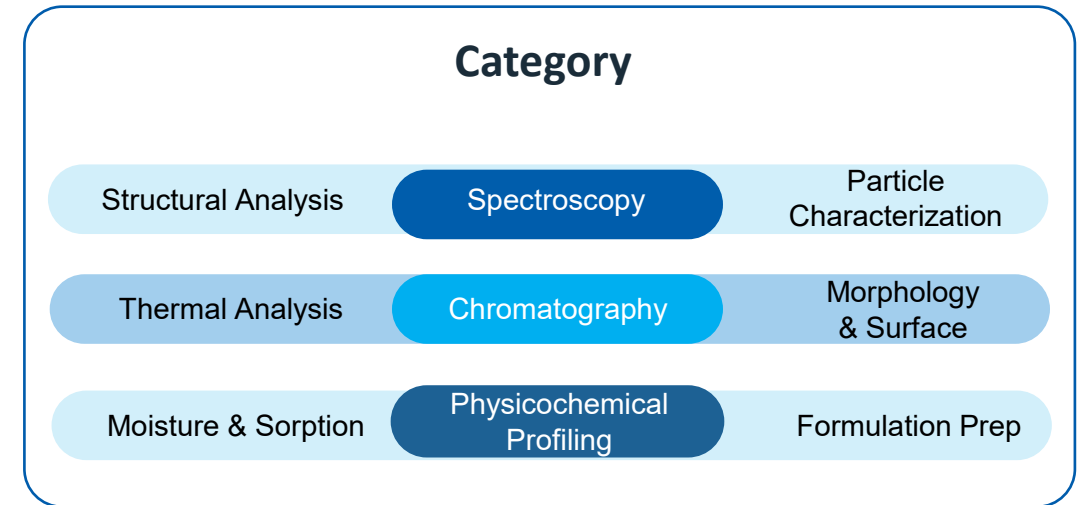
Requires as little as
2 mg of material

Results in 1-5
business days

Expandable to full
CMC or development
programs

Ideal for candidate
ranking, risk assessment,
and formulation guidance

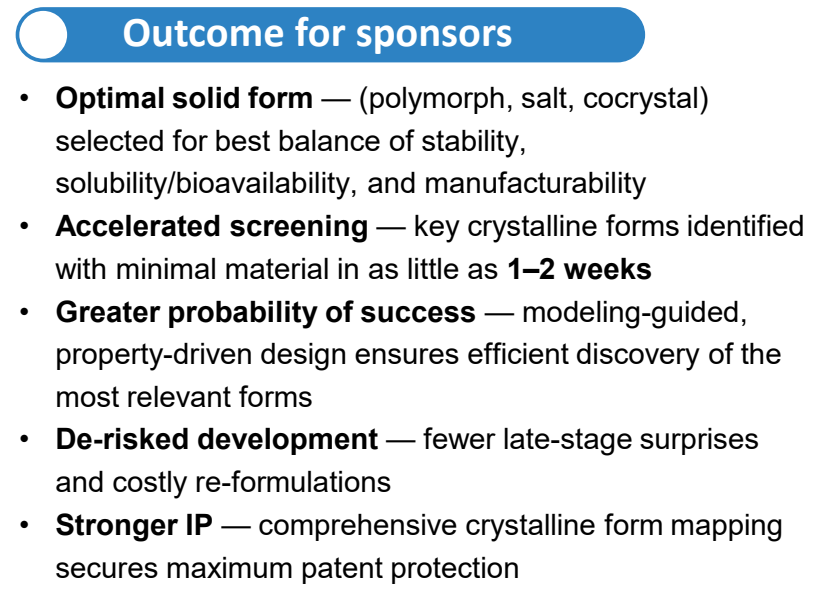
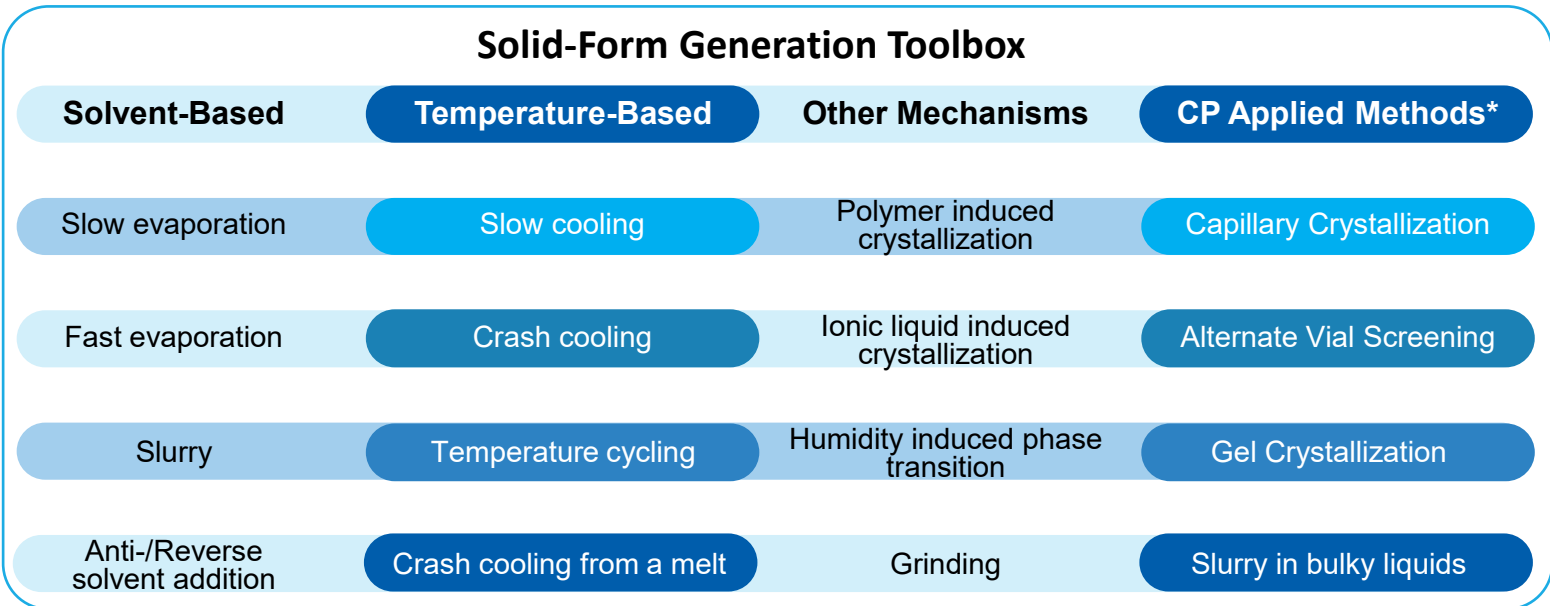
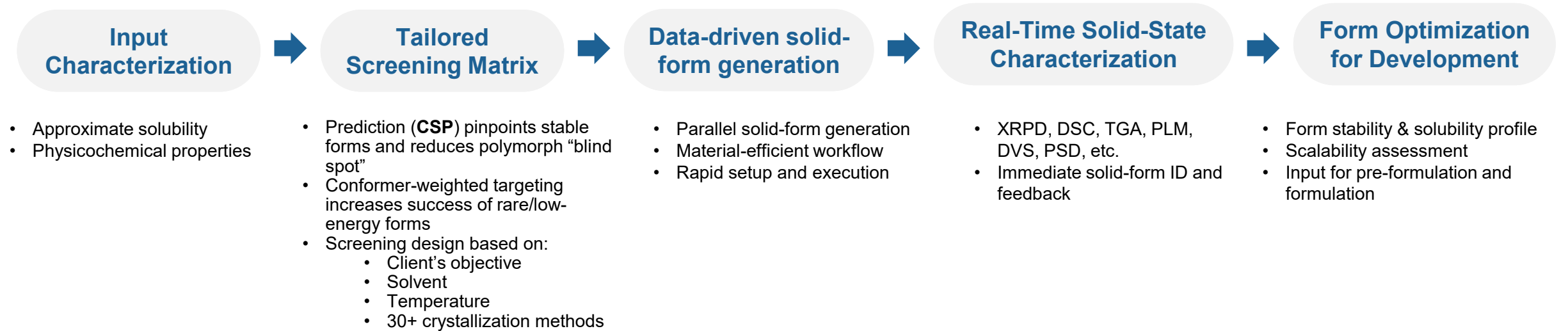
FAST Service Test Menu



CrystalSCREEN - Solid Form Screening and Selection Platforms



Advanced Screening Platform – Data Driven, Built for Speed





*15+ CP applied crystallization method.

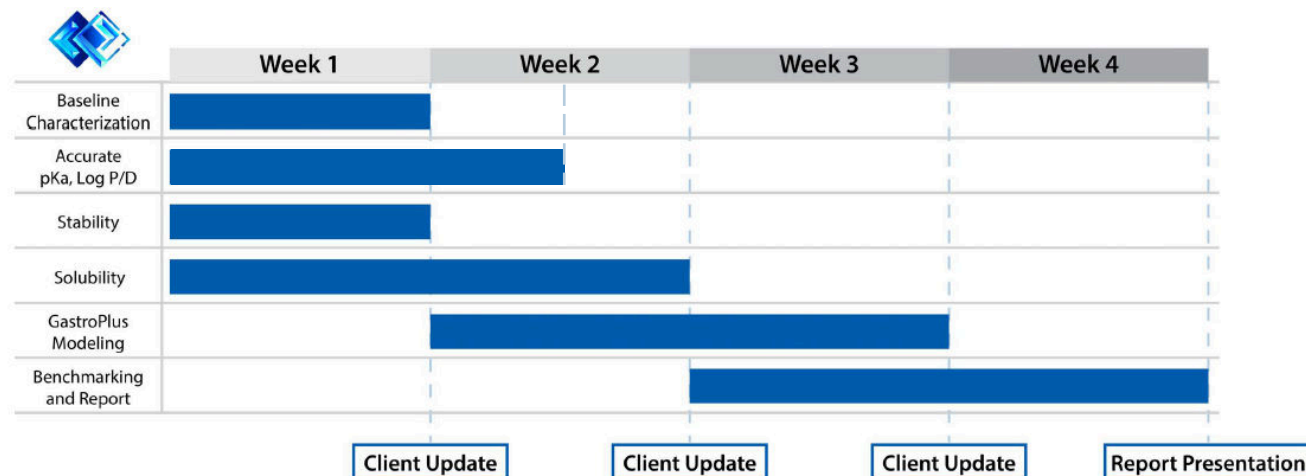


Our Technical Advantage

- Get a full pre-formulation profile with as little as 500 mg of API within 4 weeks
- PBPK + DCS/BCS modeling links lab data to human dose and exposure early
- Mol2Med™ benchmarking distills DCS class, solubility, dose numbers and a clear tox roadmap

Side-by-side comparison of all data results for Compound A and Compound B		
Parameter	Data for Compound A	Data for Compound B
Chemical Information		
PK Parameters and Calculations	Up to 14 vital data points	Dose, Dose Number, Absorption Number, PK Data, etc.
Solubility	Material-sparing solubility	pH-dependent and biorelevant comparisons
Characterization	Up to 14 different outputs to characterize and understand form	Accurate Log P/D, pKa, low energy form screening, etc.
Chemical and Physical Stability	Up to 9 different conditions	1 to 7-day stability studies

Preformulation Material Sparing Workflow



Outcome for Sponsors

- Go/no-go and formulation direction decided with milligrams, not grams
- Lower risk of late-stage reformulation or tox surprises
- Data-driven package ready for IND, fundraising and first-in-human dosing

CrystalVEHICLE - Vehicle Screening Platform for PK/Tox Animal Studies



Optimizing PK/Tox studies through data-driven vehicle selection for consistent, reproducible results.



Platform Strengths

- Comprehensive vehicle screening from compound profiling to in vivo readiness
- Rapid, material-sparing evaluation across aqueous and non-aqueous systems
- Integrated solubility, stability, and form analysis for confident selection
- Biorelevant media testing to ensure reliable GI tract performance

What Sets Us Apart

- Data-driven selection matrix — no guesswork, no wasted time
- Miniaturized workflows to maximize API efficiency
- In-house analytical suite for rapid turnaround and complete characterization
- Proven success in supporting consistent, reproducible PK/Tox studies

Value to Our Clients

- Shorter timelines from candidate profiling to study start
- Reduced risk of variability in PK/Tox data
- Lower API consumption for scarce or costly compounds
- Smoother transition from preclinical to clinical development

CrystalBOOST - ASD Screening Platform for Enhanced Bioavailability



- Rapidly develop optimal ASDs that boost bioavailability, save API, and ensure clinical translation.



Platform Strengths

- End-to-end ASD development — from API characterization to stability profiling
- Rapid material-sparing prototype generation with targeted polymer selection
- Integrated dissolution, suitability, and re-suspendability testing for go/no-go clarity
- Comprehensive solid and suspension stability assessment for reliable scale-up

What Sets Us Apart

- Predictive, data-driven design — avoiding costly trial-and-error
- Parallel prototype development for faster turnaround
- Fully integrated in-house analytical suite for rapid insight
- Proven track record in improving bioavailability for challenging molecules

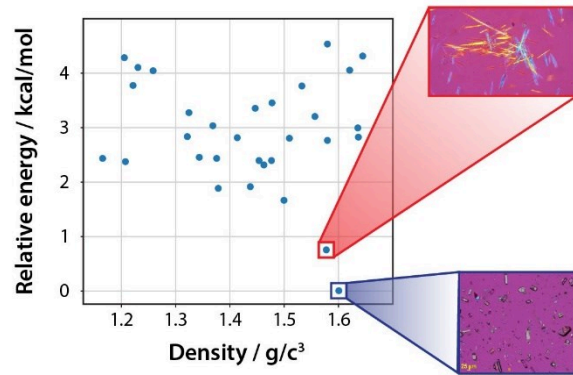
Value to Our Clients

- Accelerated development timelines and faster path to clinic
- Reduced project risk with early go/no-go clarity
- Conserved API for other critical studies
- Greater confidence in clinical translation and scalability



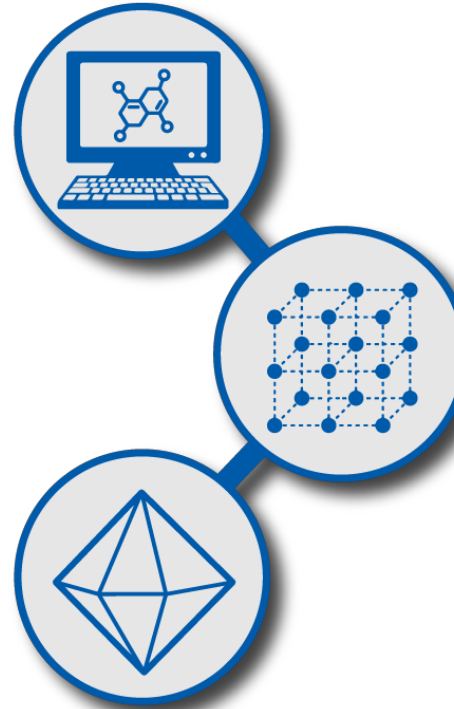
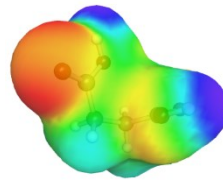
Crystal Form Prediction

- Crystal Structure Prediction
- CCDC Solid Form Snapshot



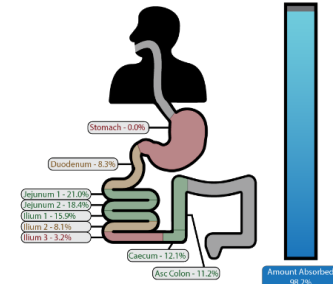
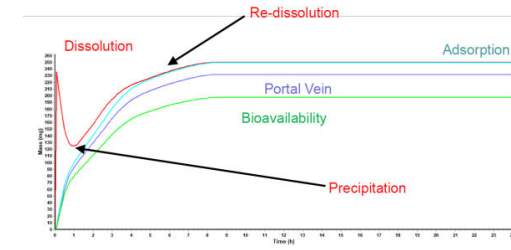
COSMOlogics

- Salt & Cocrystal Insights
- Solvate Risk Prediction
- Guided Crystal Form Screening
- Solubility Profiling
- Phase & Miscibility Maps



PBPK Modeling

- Assess Drugability
- Model Human PK & Absorption
- Gain Regional Absorption Insights
- Guide Formulation Strategy
- De-risk Development Early



Crystallization

- Crystallization Process Modeling



Facilities & Compliance

- Containment suites engineered for OEB 4–5 potency, with independent negative-pressure HVAC and HEPA filtration
- Licensed secure vaults for Schedule I–V controlled substances
- Validated containment workflows for milligram- to gram-scale solid-state studies

Operational Strengths

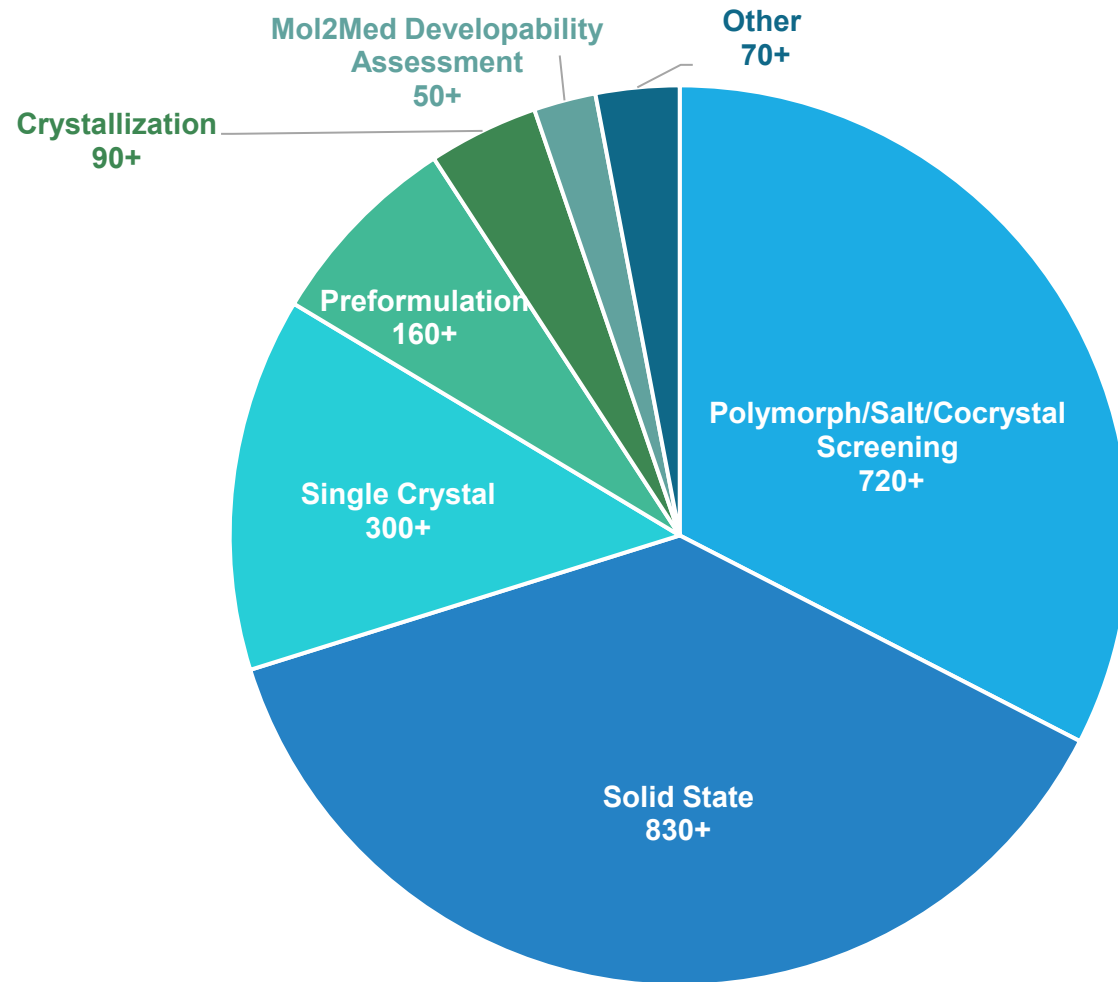
- Segregated equipment and HVAC systems to ensure no cross-contamination
- Rapid changeover, with study launches typically within 3 days of sample receipt
- Cross-trained team with integrated expertise in solid-state studies and HPAPI handling

Outcome for Sponsors

- Safe, compliant development of highly potent or controlled APIs
- First-time-right solid form before tox or GMP scale-up
- Fewer hand-offs, faster path to IND/IMPDP



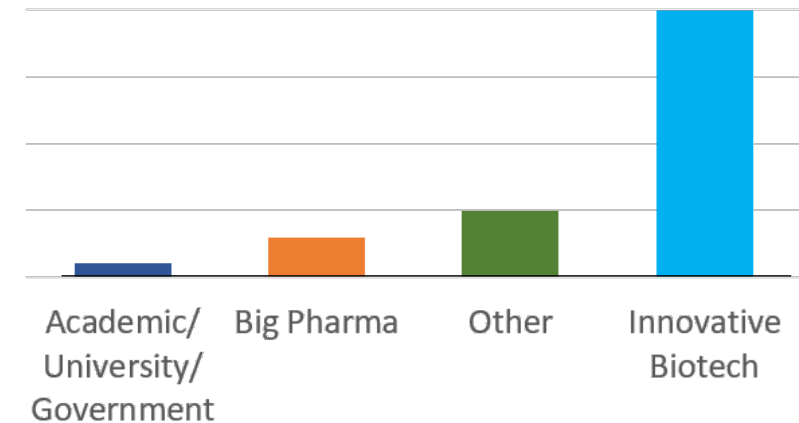
Driving Success Through Solid-State and Pre-formulation Expertise



2,220+ Projects

(Statistics Based on Selected Projects)

Supporting Company Types



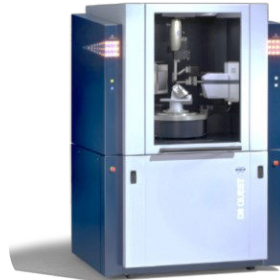
Solid State Research and Pre-formulation Instruments



Rigaku Smartlab 9kW
XRPD



Panalytical Empyrean
XRPD



Bruker D8
XRPD



Rigaku XtaLAB
Synergy-R SC-XRD



TA Instruments
TGA5500



TA Instruments
DSC2500



Renishaw inVia
Raman Microscope



SMS DVS Intrinsic
Plus



SMS DVS
Resolution



Carl Zeiss Axio Lab.A1
PLM with Hot Stage



JEOL Scanning Electron
Microscope



Malvern Panalytical
Mastersizer 3000/Hydro
EV Particle Size Analyzer

Solid State Research and Pre-formulation Instruments



CM Protégé PharmD High-throughput Screening System



Micromeritics Surface Area Analyzer



Pion Sirius T3 pKa/LogD/LogP Measurement



Pion MicroDiss/MicroFlux



Freeze Dryer



Metrohm Potentiometric Titrator



Mettler Toledo pH/Ion Meter



Mettler Toledo Volumetric KF



Mettler Toledo Coulometric KF



Buchi B-290 Spray Dryer



KW 4A Spin Coater

Crystallization Development & Milling Instruments



Crystal 16



ReactIR 45m



FBRM G400



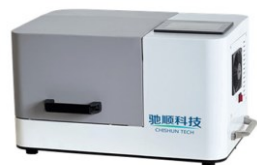
OptiMax



EasyMax



ChemRxnHub
Crystallization System



PULVERIZER 80
Planetary ball mill



SPEX SamplePrep 8000D
Mixer/Mill



Bench Top Mini High Energy
Vertical Planetary Ball Mill



Quadro Comill



Micron GMP01
Jet Mill



Jet Miller Model 00
Jet-O-Mizer System



Formulation Development & Manufacturing Capabilities



Crystal Pharmatech (CDMO Site in China, Crystal Formulation Services)

located in Suzhou, China, our 50,590 sq. ft. facility is designed to support pharmaceutical and manufacturing needs:

- **R&D Facility (11,840 sq. ft.)** - Dedicated to research and development projects.
- **GMP Facility (17,250 sq. ft.)** - Equipped to handle batch sizes up to 120 kg.
- **Clinical Supply Depot (21,500 sq. ft.)** - Provides packaging, labeling, storage and distribution, with extended support through a partnered U.S. depot.

Crystal Pharmatech (CDMO Site in Canada, Candoo Pharmatech)

located in Toronto, Canada, our 12,500 sq. ft. facilities are designed to meet your pharmaceutical and manufacturing needs:

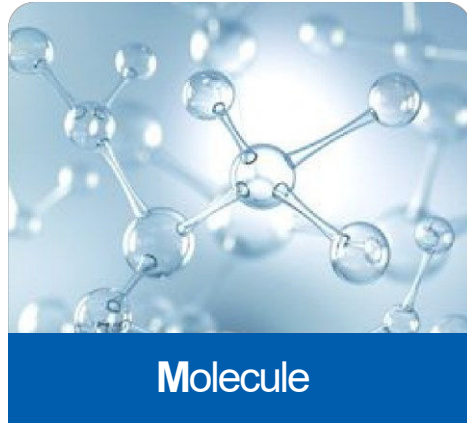
- **R&D Facility (3,500 sq. ft.)** - Dedicated to research and development projects.
- **GMP Facility (9,000 sq. ft.)** - Equipped to handle batch sizes up to 100 kg.

140+
Clients Worldwide

280+
Projects

Quality management system (QMS) in accordance with cGMP standards by FDA, EMA, Health Canada, and the NMPA

Our Formulation Development Philosophy - The M3 Core



- Clinical info and needs
- DMPK understanding
- Pharmacodynamics
- Safety information
- Molecular profile

- API Solid Form
- API physiochemical, biopharmaceutical, mechanical properties and stability
- Excipient functionality, physical attributes, compatibility
- Properties of composition tailored for process

- Target product profile (TPP) /label as driver for design
- Interaction of composition and process
- Impact of API and excipient properties and composition on CQAs
- Impact of CPP on CQAs
- Control strategy for drug product



Conventional Formulation Platforms

- Compaction simulation to guide OSD formulation development (roller compaction, tableting, bilayer, sticking and over-lubrication risk assessment.)
- Dry coating approach for unstable amorphous API formulation
- ER, Gastric-retentive, and bimodal release for API with short half-life, narrow absorption window, fast onset
- Polymer-surfactant combination to keep long supersaturation for weak base with dramatic pH-dependent solubilities



Enabling Technology for Insoluble Compounds and PROTACS

- **Comprehensive ASD Platform:** From composition screening to tablet formulation
- **Spray Drying Workflow:** Film casting → Lab-scale → PSD-1 scale-up (API-polymer-surfactant analytics)
- **Rheology-guided HME:** 12mm lab → 18mm extrusion (polymer rheology-driven)
- **SMEDDS for low solubility but with High logP, or Low Permeability:** Solution in liquid-filled capsules or tablet dosage forms
- **Protein Degradar Platform:** ASD & Permeability Enhancement (PE) for low solubility/permeability (high Mw)
- **Oral Peptide Platform:** PE, stabilization & release profiling

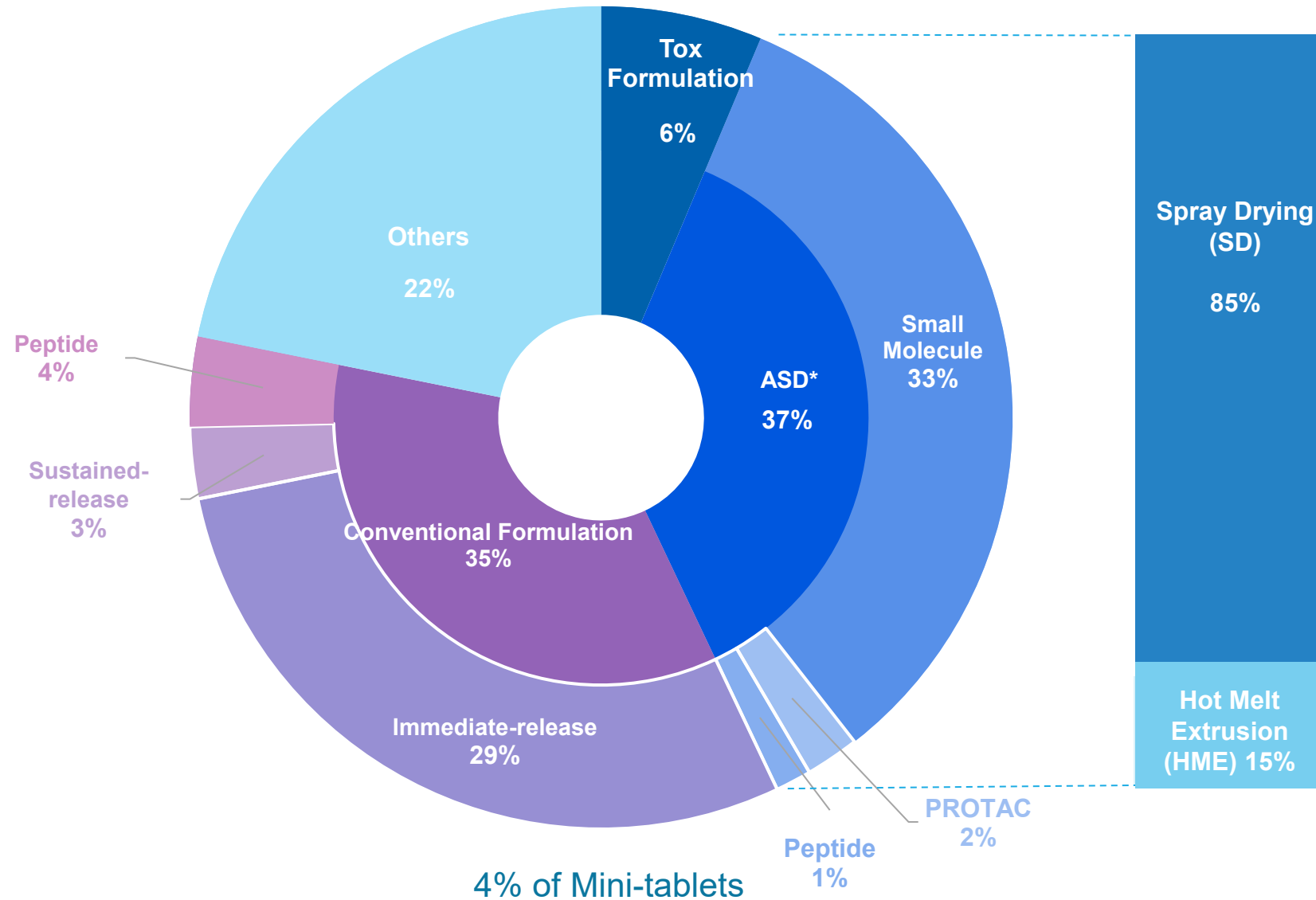


Mini-tablet Based Pediatric Formulation

- 2mm in diameter, 7-8mg image
- Drug load as low as 0.7% with 7.5% RSD for individual tablet
- Encapsulation achieved 4 tablets/capsules with 100% accuracy



Driving Success Through Formulation Expertise





NMPA

December 2022

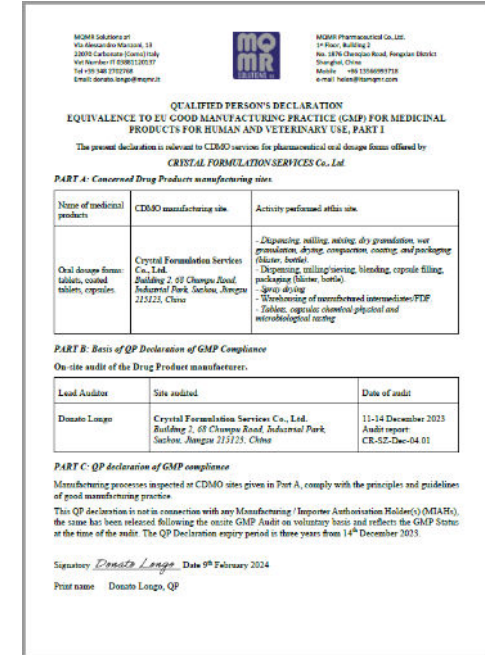
FDA

Expected in 1Q2026

New production site added for US customers with signed contracts.

EU QP

December 2023



Third-party Audit Services



SGS

September 2023

September 2024

> 30 audits by biotech/pharma clients

Analytical Development and QC Instruments



Agilent 1260/1290 infinity II with UV or DAD detector



Waters Acquity Premier UPLC



Thermo Fisher Vanquish Flex



Thermo Fisher Vanquish Core with CAD and UV detector



Agilent 8890 HS-GC



Waters Xevo TQ-S Micro LC-MS



Thermo Fisher iCAP RQ ICP-MS



Mettler Toledo UV-Vis Spectrophotometer



Agilent Cary 60 UV-Vis Spectrophotometer



Thermo Fisher FTIR Spectrometer Nicolet IS20



Rudolph Autopol II Polarimeter



Shimadzu TOC Analyzer



Agilent 708DS Dissolution Bath



Agilent 850-DS Dissolution Sampling Station



Ultracentrifuge Hmac Micro CS150FNX



Agilent BIO-DS Dissolution Apparatus



Sotax Xtend Online/Offline Dissolution Apparatus



Binder Stability/Light Chambers KBFP240/KMF240/KBF1020



Memmert Stability/Photostability Chamber

Pre-formulation and Formulation Instruments



XRPD
Analytical AERIS
Research



DSC
Mettler DSC 3



TGA
TA Q500



DVS
SMS Intrinsic



PLM
Zeiss Axio Lab.A1



Contact Angle Analyzer
SINDIN SDC-200S



Flowability
Teledyne Hanson Flodex



Compaction Simulator
Medelpharm
STYL'One Evo



Single Punch Press
Natoli NP-RD10A



True Density
Micromeritics AccuPyc II
1345 Gas Pycnometer



Control Sieve Shaker
Retsch AS 200



Particle Size Analyzer
Sympatec HELOS/KR



Rheometer
Thermo Fisher HAAKE
MARS 40



Envelop Density Tester
Micromeritics
GeoPyc 1365






















**Small Scale
(Non-GMP)
(≤ 5 kg)**



**CTM and
Commercial
Scale (GMP)
(0.5 – 120 kg)**



**Commercial
Scale
(GMP)
(> 300kg)**

	Spray Drying	HME/WG	Dry Granulation	Tableting	Film Coating	Encapsulation	Wet Granulation/ Fluid Bed Drying	Packaging
Small Scale (Non-GMP) (≤ 5 kg)	 Buchi B290	 Leistritz ZSE 12	 Fitzpatrick LCS Alexanderwerk WP120	 Korsch STYL'ONE Korsch XL100	 Freud Vector LDCS	 Bonapace IN-CAP XL	 CANAAN LHSM10 Glatt Midi/Mini	 Blister Packaging Jorren DPP150K-2
CTM and Commercial Scale (GMP) (0.5 – 120 kg)	 GEA PSD-1	 Leistritz ZSE 18	 Alexanderwerk WP120	 Korsch X3 Korsch XL100 Pro	 Freud Vector LDCS and Pilot	 Syntegon GKF 702 Bonapace IN-CAP XL	 Canaan LHS50/LHSM25 Glatt Multilab GPCG2	 Bottle Packaging Pharmapac PP- 0601CD
Commercial Scale (GMP) (> 300kg)	 GEA PSD-3 like		 *Alexanderwerk WP200	 *Korsch XL400	 *Freund-Vector LDCS-Pro		 Leistritz ZSE 18	

**To be installed*



Spray Drying

Blender

Roller Compactor

Tableting

Film Coating

Encapsulation

**Small Scale
(Non-GMP)
(≤ 5 kg)**



**CTM and
Commercial
Scale (GMP)
(0.5 – 100 kg)**

 <p>Buchi B290</p>	 <p>Servolift Bin</p>	 <p>Freund-Vector Roller Compactor</p>  <p>Freund-Vector High Shear Granulator</p>	 <p>Eliza EP-200L Rotary Tablet Press (5B+5D)</p>	 <p>O'Hara Labcoat M5</p>	 <p>Technophar S2 Capsule Band Sealer</p>
 <p>BUCHI S-300</p>	 <p>Globe Miniblend</p>  <p>Freund-Vector MG5-6BC Bin</p>	 <p>Freund-Vector TFC220</p>	 <p>Korsch XL100 Pro</p>	 <p>O'Hara LC-M50</p>	 <p>Profiller 3700 Manual</p>



Crystal Pharmatech

Crystal Pharmatech is committed to being your trusted partner and providing the highest quality deliverables through sound science and operational excellence.

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