

MINAKEM

Improving lives together



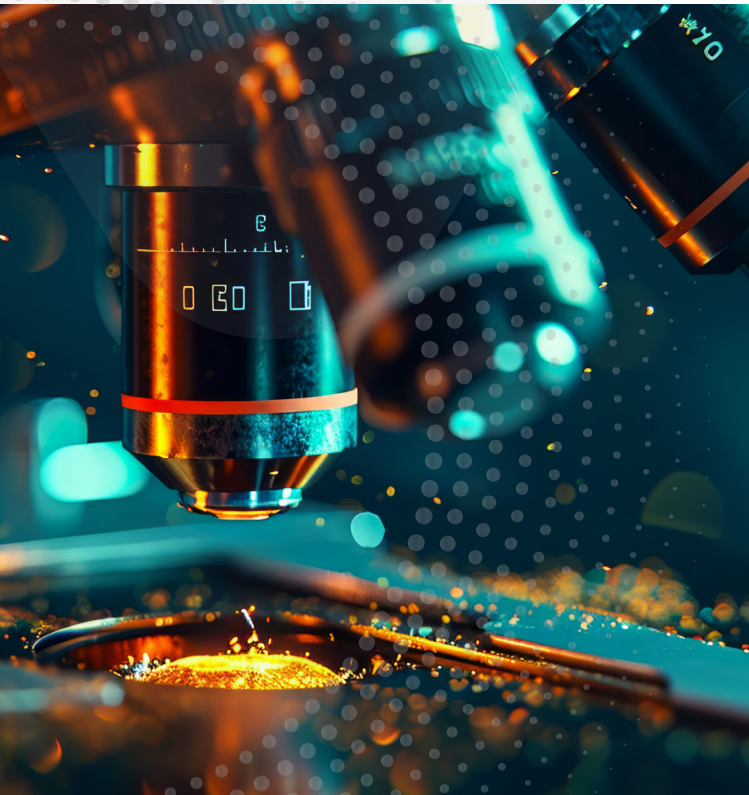
SOLID STATE & PARTICLE ENGINEERING

SMART DEVELOPMENT
FOR ADVANCED
DRUG SUBSTANCES



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SMART DEVELOPMENT FOR ADVANCED DRUG SUBSTANCES



At Minakem, solid-state studies are not only investigating the polymorphic landscape of a drug and its impact on the bioavailability, it is also a wholly integrated part of the process development.

Our process development study:

- **Select the most suitable crystalline candidate:** crystal form and morphology.
- **Determine seeding point:** MSZW determination (Metastable Zone Width).
- **Develop a robust and scalable crystallization process:** Easy to implement from lab to production scale with suitable filtration properties, ensuring the required quality attributes of the final product.
- **Control the particle size distribution** Within requested specifications.

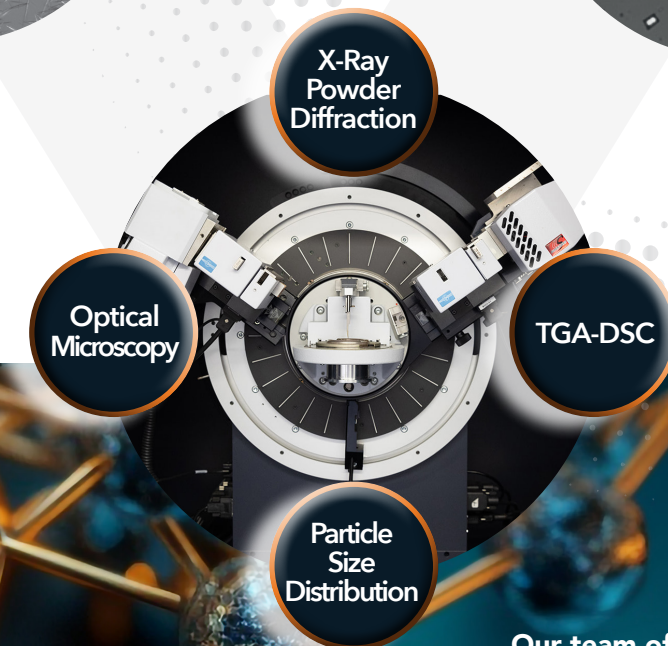
- **Polymorph, salt & cocrystal screening studies:** identification, characterization & relative stability study assessment
- **Chiral resolution screening, development, & optimization:** improve processability, isomer separation via diastereomeric salt formation, entrainment
- **Scalable crystallization process development:** with solubility studies and phase diagram investigation
- **Filtration & drying study:** Specific cake resistance determination, compressibility assessment
- **Particle size engineering & control:** Dry and wet milling, micronization study
- **IP Support**

Example of crystal growth promotion and decreased filtration time by selecting the appropriate polymorph



FORM 1 :
One week

FORM 2 :
One Hour



Our team of experts in crystallization is working closely with our manufacturing facilities and dealing with the reality of process optimization and troubleshooting of industrial crystallization processes.

Your Trusted CDMO Partner for Success



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