

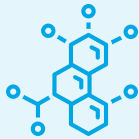
# THERE'S A SCIENCE TO SUCCESS.™

serán

Engineered solid dosage form solutions for a wide range of formulation approaches.

## Dosage Form Design

Serán is your development partner for all oral solid, solution, and inhaled particle needs. From dose selection through all phases of clinical manufacturing, Serán has the expertise and experience to meet your needs today while anticipating what comes next.



Enabled Formulations



Powdered Forms



Tablets, Capsules,  
& Multiparticulates



Inhaled Particulates



Our team's approach considers your strategy to invest in and advance formulations with the highest probability of success. We act as guides, leveraging our technology and expertise to point the process toward successful dosage form today while planning for the future and the needs of commercial launch.

## PRODUCT DESIGN EXPERTS

- **Industry Expertise:** Scientific and manufacturing expertise spanning decades to deliver clinic ready processes.
- **Adaptable Processes:** Dynamically respond to internal and external contingencies to meet evolving manufacturing needs.
- **Manufacturing Excellence:** State-of-the-art facilities with latest technologies.
- **Partner Focused:** As a trusted member of your team, we deliver with your goals in mind.

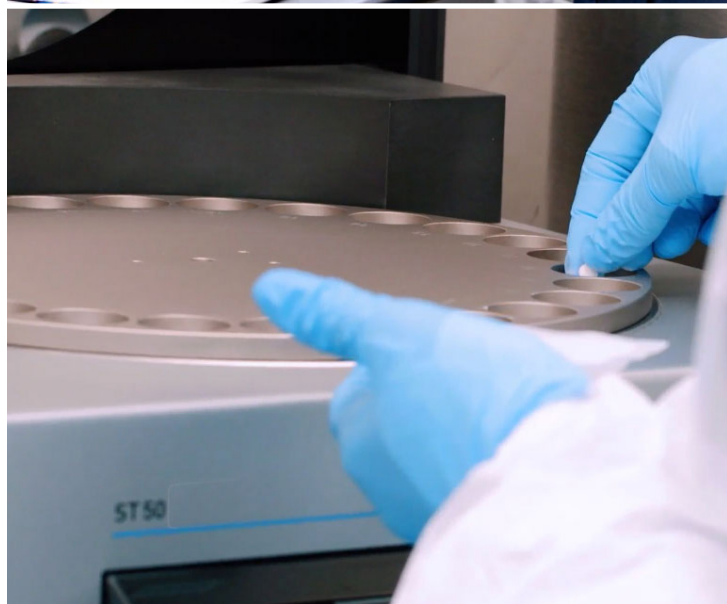
# Accelerated target identification & dosage design through every clinical manufacturing phase.

## Formulation and Dosage Design

- Oral solid dosage forms
- Tablet design
  - IR, MR/CR
  - Cosmetic or functional coatings
  - Bilayer
  - Fixed dose combinations
- Capsules
- Enabled formulations – amorphous solid dispersions, micronized particles, lipid nanocrystal
- Powdered forms – PiB, PiC, DP intermediates, blends, granulations
- Multiparticulates – fluid bed coating
  - Pellets, minitablets, inhaled particulates
- Extensive experience with combination drug product design, direct compression, formation of amorphous, solvated and polymorphic forms, chiral separation of drugs, production of materials for inhalation drug delivery and injection

## Analytical and Regulatory

- Solid-state characterization
- Process validation and in process particle size analysis
- Extensive solid-state and chemical analytical methods to ensure successful formulation
- Delivery of soluble and insoluble compounds
- Track record of successful on time delivery
- Full project management and guidance



## Connect & Learn More

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🌐 [www.seranbio.com](http://www.seranbio.com) 📍 Bend, Oregon

**serán**

Serán is a world leader in drug development and manufacturing. Utilizing a foundation of physical and chemical science, Serán designs robust formulations and engineering solutions to some of the industry's toughest drug product problems.