

PARTICLE SCIENCES

DRUG DEVELOPMENT SERVICES

FROM CONCEPT TO CLINIC, WE CAN HELP

Through a full suite of preformulation, formulation, analytic, and manufacturing services, **PARTICLE SCIENCES** provides pharmaceutical companies with a complete and seamless drug development solution that minimizes the time and risk between discovery and the clinic.

We specialize in topical and mucosal drug delivery in addition to parenteral and oral formulations. What's more, we are proficient with a range of formats including combination products and other novel delivery systems. We regularly work with challenging APIs and are DEA registered. And, as our name implies, we are expert in fine particle and nanotechnology approaches.

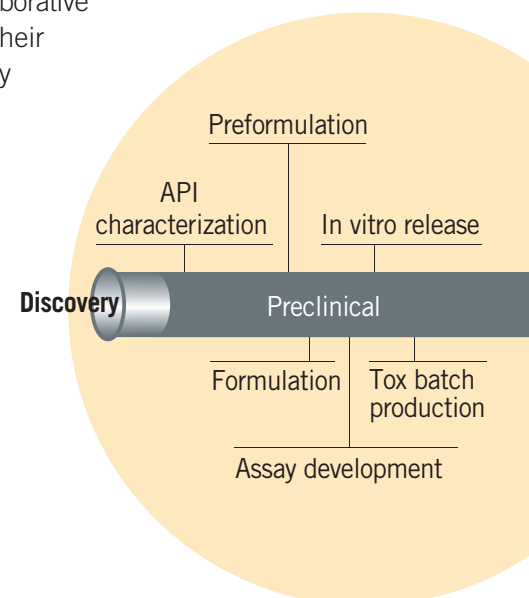
QUALIFIED FOR SUCCESS

Clients benefit from the in-depth expertise of the Particle Sciences staff. Our team includes physicians, engineers, and doctorate-level surface, analytic, material science, and polymer chemists. With decades of collective experience in nanotechnology, difficult to solubilize APIs, and multiple delivery and formulation formats, our expert team has real-world experience to meet complex development challenges head-on.

At Particle Sciences, the team takes a truly personalized approach and operates as an extension of a client's staff. We encourage frequent communication between ourselves and our clients and believe this leads to more successful project outcomes.

With a proven track record of innovation in developing commercially viable technologies, Particle Sciences serves clients — both large and small — with a responsive, collaborative approach that ensures their objectives are successfully met on time, on budget, and with the highest quality.

Discover the Particle Sciences difference for yourself. Working together we can find creative solutions to your drug development challenges.



THE RIGHT BLEND OF HIGH-QUALITY SERVICES

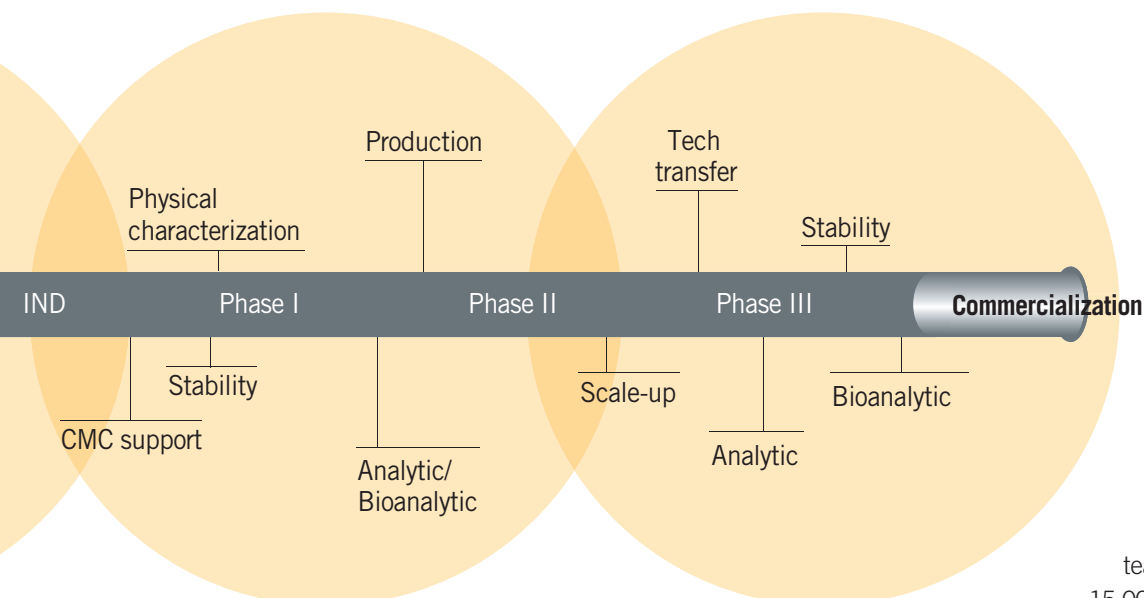
Our fully-integrated system provides optimized, end-to-end support for our clients' specific requirements – including difficult to work with APIs and challenging delivery goals. Products are efficiently advanced toward the clinic through Particle Sciences' integrated suite of services including:

- Preformulation
- Formulation / Drug Delivery
- Micro / Nano Technology
- Analytic
- Bioanalytic
- Physical Characterization
- Clinical Manufacturing
- ICH Stability
- In-vitro Release Testing

ACHIEVING CLIENTS' DELIVERY GOALS

At Particle Sciences, we design delivery systems and excipients to work as a unit with the clear-cut goal of getting the right amount of API to the right place at the right time. Catering to many types of APIs and sites of action, our specialized designs cover a range of delivery formats such as:

- Semisolids (gels, emulsions, suspensions)
- Aerosols
- Films
- Combination products
- Encapsulation
- Particulates
- Nano-systems



Particle Sciences' powerful suite of integrated services spans the drug development process. From concept to clinic, we can accelerate the process.

Each project is expertly managed by a dedicated leader and cross-functional team employing state-of-the-art tools. Our 15,000-sq. ft. facility includes a comprehensive formulations laboratory, a cGMP analytical laboratory, and well-equipped clean room facilities.

DISCOVER THE PARTICLE SCIENCES DIFFERENCE

A client's success is how we measure our own. That's why Particle Sciences approaches product development through an efficient, single-source system that includes preformulation, formulation, analytic, and manufacturing services.

Since 1991, Particle Sciences has established itself as a leading, integrated provider of both standard and nanotechnology approaches to drug development and delivery. Through innovation and well-designed programs we have repeatedly met our clients' needs on-time and on-budget.

When your project requires the highest degree of quality, ingenuity, and collaboration, call on us. We can help you to transform your discovery into a clinic-ready product.



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3894 Courtney Street
Bethlehem, PA 18017-8920, USA

Phone: +1 610 861 4701

Fax: +1 610 861 4702

Email: info@particlescience.com

www.particlescience.com