

As of 1st of July 2010,

Bertin Pharma is the new name under which **SPI-Bio**, **Biotec Centre**, **Ellipse Pharmaceuticals** and **IDPS** gather their whole range of expertise and emphasizes their filiation to Bertin Technologies.

Bertin Pharma is a **European leading company**, gathering more than 100 highly qualified people in France using innovative technologies, dedicated technical platforms and quality standard environments (**GLP**, **GMP**, **GDP**).

We can therefore propose you a **comprehensive and integrated offer of products and services** throughout the **drug development value chain**:

Preclinical & clinical studies

Biologics

Biosafety

Pharmaceutical development

Bertin Pharma is also an international company with a worldwide distribution network that offers door to door tools for bioanalysis.

Bertin Pharma

Your Partner in Innovative Drug Development



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Whatever your need (new products, generic formulations, dermocosmetics, food supplements), **Bertin Pharma** is offering a comprehensive package of services and know-how in formulation development in order to respond to your specific needs:

- **Full preformulation & pre-clinical bibliographic** study including intellectual property aspects
- Formulation **development** of new chemical entities or biotech-derived actives
- Delivering **first formulation solutions** to allow first-in-man
- **Optimisation** / adaptation of existing formulations
- Formulation **troubleshooting** on existing products
- Audit and optimisation of **manufacturing process**
- Development of new formulations as part of **lifecycle management** strategy

A wide range of formulations

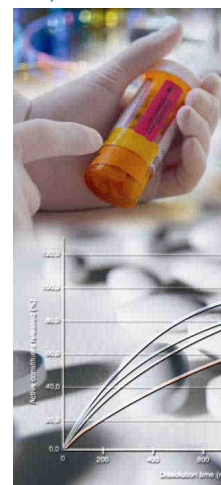
Our first task for each new project is the setting up of precise product specifications. Whether your project is already mature or at a very early stage, **Bertin Pharma** will assist you in defining the **optimum formulation solutions** with regards to the technical, industrial feasibility, regulatory and intellectual property aspects of your project and thanks to a wide range of available technologies (our equipment list upon request).

Dry formulations

- Tablets: immediate & modified released, film-coated or sugar-coated, effervescent/water-dispersible, orodispersible, freeze-dried
- Capsules: soft & hard gelatines, pellets, powder filled
- Multiple units particulate systems (MUPS): microtablets, pellets, multilayer tablets
- Depot formulations (solid biodegradable implants)

Liquid & semi-solid formulations

- Aqueous solutions/suspensions, gels, emulsions and micro-emulsions, anhydrous/ lipid solutions and suspensions, syrups, lotions, sprays, nail varnish



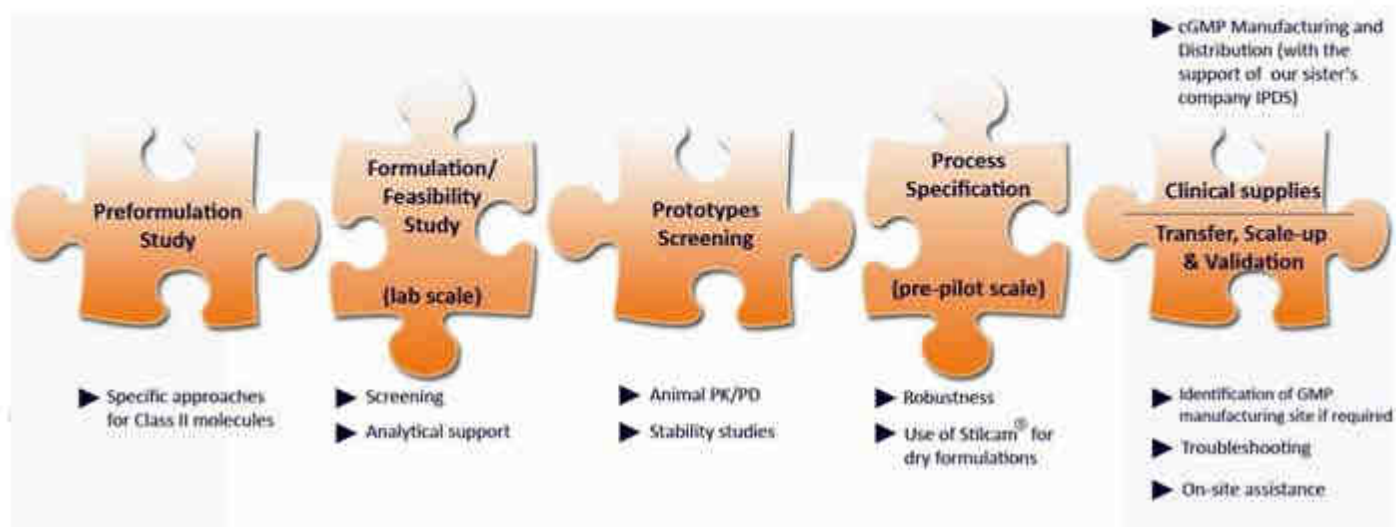
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SIX TO TEN MONTHS



Specific know-how and expertise

- **Modified release** dosage forms (delayed, sustained, bimodal, gastro-resistant)
- **Gastro-resident** formulations
- **Thermoreversible** and **bioadhesive** formulations (especially for mucosal application)
- **Multi-layer** tablets
- **Multiparticulate systems** (microtablet, pellets, microgranules)
- **Lyophilisation** (injectable, lyophilisate tablet)
- **Emulsions/micro-emulsions**



Your benefits

- Highly **qualified** and **experienced** team
- Ability to develop **patentable formulations**
- **Well-equipped platform** (listing of apparatus available on request)
- Network with others CRO's and manufacturers
- Manufacturing of small & clinical batches at IDPS (sister company)

Related services

Analytical services
Pharmacokinetics & bioanalysis

Therapeutic protein-based drug characterization platform
Extensive biopharmaceutical expertise
Regulatory affairs