



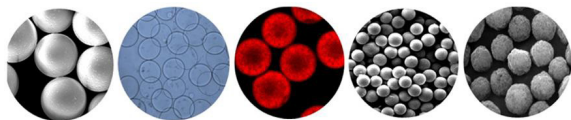
Ingeniatrics

Headquartered at Seville, Ingeniatrics is a technology-based company, founded in 2001. Taking advantage of its proprietary microfluidics platform, Ingeniatrics' mission is the development of high value products and applications for a wide variety of sectors.

Ingeniatrics is focused on maximizing and implementing the company's expertise in microfluidics-based technologies for biotech and pharma sectors:

 **Flow Focusing® Encapsulation:** tailor-made encapsulation processes for the pharmaceutical industry and biotechnology companies, for new product development and release modes.

 **Particle manufacturing:** Scale up processing plants for the production of particles obtained during the provision of services.



Ingeniatrics

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Ingeniatrics

**microfluidic solutions
for the real world**



Cell encapsulation technology is based in the immobilization of cells within a semipermeable membrane that protects them from mechanical stress and the host immune system, allowing the bidirectional diffusion of nutrients, oxygen and secretory products including waste.

Cellena® is a **User-friendly** equipment for biotechnological research based on the Flow Focusing® technology.

Cellena® allows homogeneous encapsulation of cells and organisms under sterile conditions. The size of the particles can be adjusted as required for each specific application.

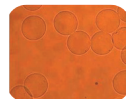


Main features

- Particle sizes are suitable for **Flow Cytometry**
- **Sterile** methodology
- Selectable and consistent particle **sizes from 100 to 450 microns**
- Encapsulated **individual** microorganisms without losing viability
- **Semipermeable**
- *in situ* production of **APIs**
- **Disposable** nozzles available for each particle size

Accurate control of particle size

120µm



200µm

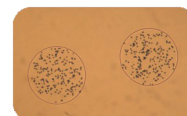
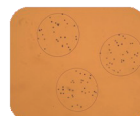


300µm



Precise microencapsulation

from individuals to bulk quantities



Applications

- Cell susceptibility studies and microbial analysis
- Identification of potential biodiversity libraries
- Discovery of new, strong activity molecules
- Cell therapy
- Logistics
- Culture alternative for non-cultivable cells and organisms
- Your innovative application

Biotech services

Our tailor-made encapsulation processes are suitable for:

- Product development pipelines of Biotech companies
- Technology optimization at research centers

