

Cocoon®

Lonza

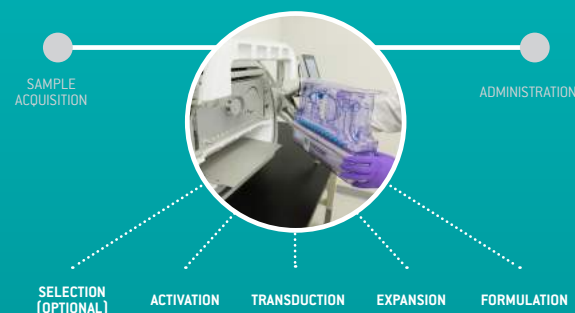
Pharma & Biotech

The future of personalized medicine is here.

The Cocoon® Platform is an automated cell therapy manufacturing system that offers flexibility, in-process analytics, and superior scalability which lead to a higher quality manufactured product at a lower cost.

For more details, visit lonza.com/cocoon

Automate your cell therapy process end-to-end



The Cocoon® Platform is a functionally closed, highly customizable and scalable end-to-end cell manufacturing platform with minimal touchpoints.

The Cocoon® Platform is a fully automated patient-scale cell therapy system that integrates multiple unit operation steps to reduce manpower, require minimal training, and ensure easy tech transfer across multiple sites. Client specific protocols are performed within a highly customizable cassette. This integrated turnkey production solution can be configured as a compact but powerful system with a small footprint, or as a multi-patient system for ultra-efficient, enterprise-level deployment meaning it can be deployed in early process development at an academic site, through clinical manufacturing, to commercial scale production. One platform delivering solutions across your entire development pipeline.

Superior scalability

The Cocoon® Platform can transition from a single benchtop unit into the Cocoon® Tree, allowing an easily scalable solution from clinical trials to commercial scale manufacturing using the same platform.



Features

1 Environmental unit

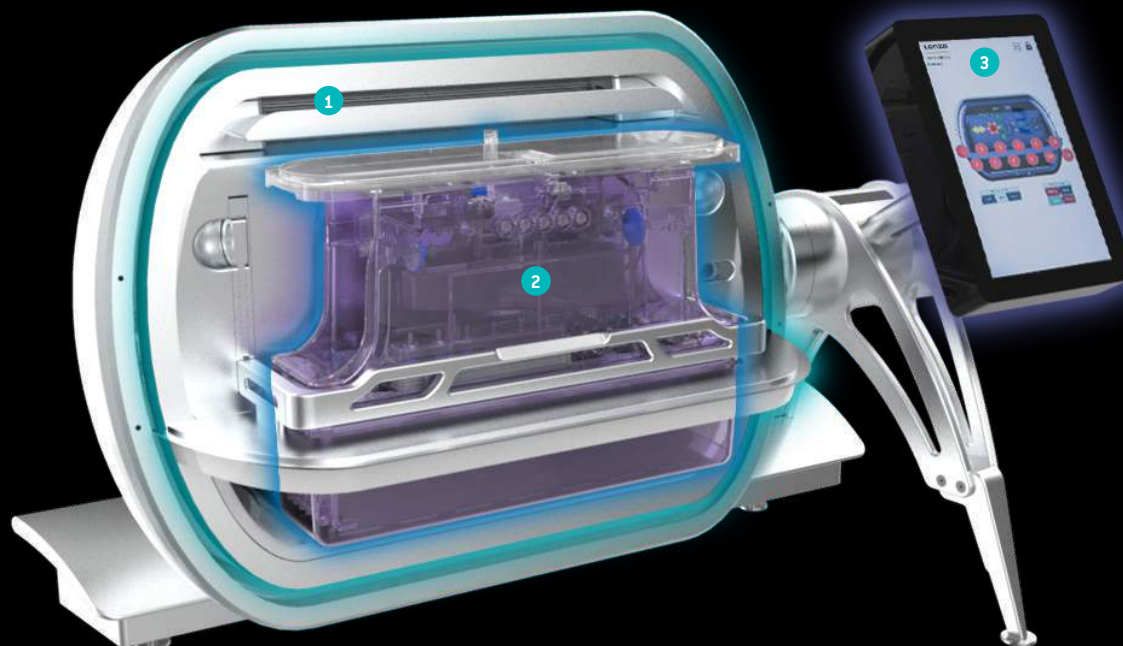
- Dual-zone temperature control (37° C and 4° C)
- Built-in pump and sensors for in-process monitoring
- CO₂ and Dissolved Oxygen Process Control
- Bar code scanner for log-in and traceability for Chain of Custody and Chain of Identity

2 Customizable cassette

- Functionally closed, disposable, and flexible
- Process specific: adherent/suspension cells
- Integrated cold chamber for internalizing process reagents and consumables
- Appropriate for lenti- and gammaretro- viral transduction processes, as well as, non-viral transfection with the Lonza 4D-Nucleofector™ LV Unit

3 Software

- Monitors and controls temperature and gases
- Protocol design/control flow pathways
- Monitor pH/DO and can automatically adjust process real-time using biofeedback
- Information logging/electronic batch records – 21CFR Part 11 compliant
- Full sample and product traceability



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