



- Fast and easy set-up
- Easy adaptation to user's formulation
- Handling of low volume samples for screening purposes
- Flow and emulsion production control through large touchscreen
- Compatible with the single and double emulsion RayDrop[®]

The way we produce beads, micro-capsules, multiparticulates, nanoparticules relies on the use of couples of capillaries perfectly aligned in a metallic chamber.

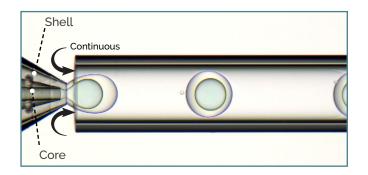
The droplets are produced by the controlled squeezing of the droplet phase by the continuous phase at the entrance of the collection capillary. The InstaDrop is designed to allow a fast and easy set-up for precise, repeatable and cost-effective encapsulation processes.

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This benchtop instrument is ideal for your developments in small molecules and biological material encapsulation.

> Applications

- Controlled and targeted release
- Dosing flexibility
- Precise loading of cargo (API, cells...)
- Combination product
- Taste Masking



> Possible formulations



Chitosan microcapsules Encapsulation of oil material



PLGA microcapsules Encapsulation of aqueous solution

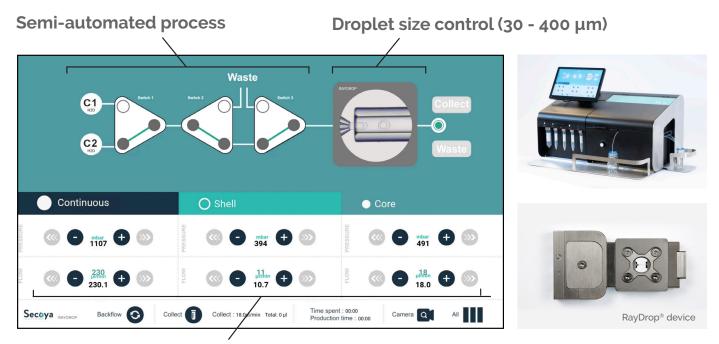


Eudragit beads For targeted release





Thanks to its large touchscreen, valves, flowmeters and pressure controllers can be easily controlled to obtain the optimal parameters



Easy flow and pressure set-up

Within a compact design, the InstaDrop integrates everything required to generate microbeads and micro-capsules with the RayDrop[®]

Description	Product
Single and double emulsion production device	Compatible with any RayDrop® device
Fluid handling system	 3 pressure controllers (0-7 Bars) Solenoid valves Tubing: 1/16" PFA; 1/32" PEAK 2 μm PEAK inline Filters
Reservoirs	 Continuous phase: 1*50mL Pcap with 50mL Falcon tube Shell Phase: 2*15mL Pcap with 15mL Falcon tube Core Phase: 2*15mL Pcap with 15mL Falcon tube
Flow meters	 Continuous phase: 0-1 mL/min (water) Shell Phase: 0-120 μl/min (water) Core Phase: 0-120 μl/min (water)
Optical system	 High power LED Colour camera with microscopic objective XYZ translation stages
Wetted material	• PP, FFKM, PFA, PEAK, GLASS, SS316L, PCTFE
Unit dimensions	• 85 x 51 x 48 cm (L x W x H)
Weight	40 kg
Power supply	230 V (110 V upon request)



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