



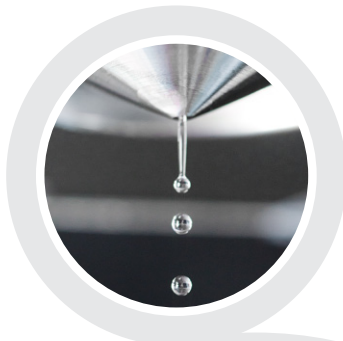
Encapsulator B-395 Pro

For sterile microbeads and microcapsules

A quality product for the sterile encapsulation of cells, biological and active ingredients for laboratory-scale research and development work. The highly advanced technology enables particle production for numerous biotechnology and medical processes and other fields that require sterile conditions.

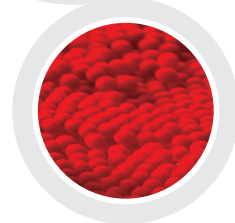
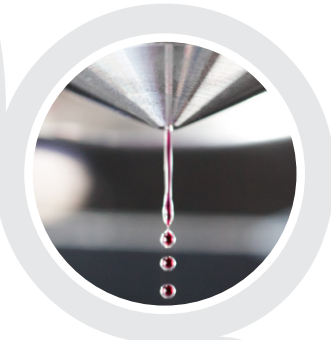
Aseptic

Sterile encapsulation of cells, microorganisms and active ingredients



Reliable

Efficient, reproducible encapsulation process



User-friendly

Intuitive to operate and easy to maintain

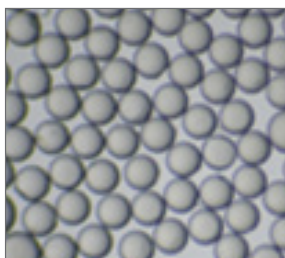


Encapsulator B-395

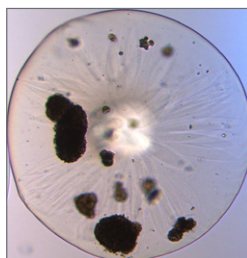
Your partner for the production of microbeads and microcapsules



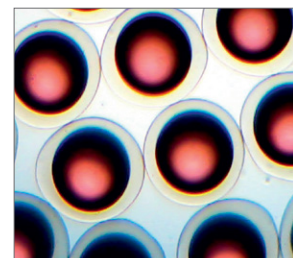
Application examples



PLGA beads with Ibuprofen

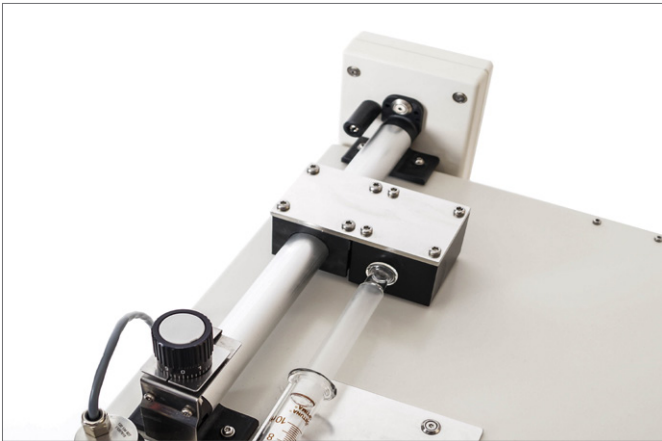


Encapsulated islet cells



Alginate capsules with oil core and red colouring

Key features and options



Syringe pump

Easily calibrated syringe pump for low-loss feed of small sample quantities using sterile syringes of various volumes



Material certificates

The reaction vessel for the Encapsulator B-395 Pro is available with material certificates for GMP documentation



Concentric nozzle system

Concentric nozzle system for creating core-shell capsules (dia. 200 – 2000 μm)

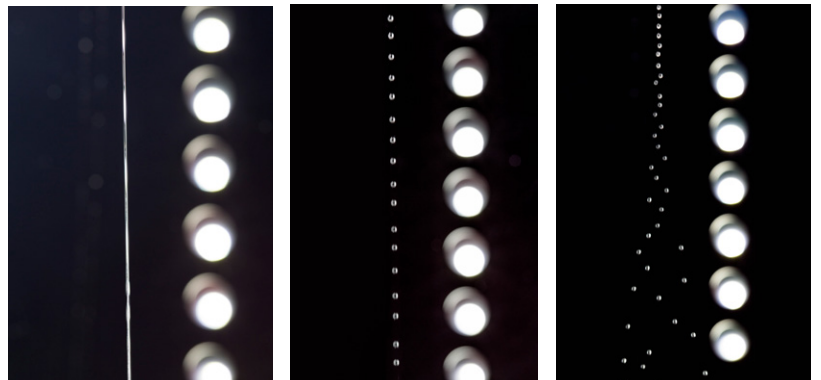


Air dripping nozzle

Nozzle system with airstream dispersal and minimized dead space, tailor-made for low-impact encapsulation of cell agglomerates

Method of operation

A laminar-flow fluid jet is subjected to a superimposed mechanical vibration, as a result of which it disintegrates into regular-sized droplets. They are then hardened by means of chemical or physical processes. Easy to achieve with the Encapsulator B-395 from BUCHI!



Generation of a stable fluid jet

Generation of a stable, vertical droplet chain

Electrostatic dispersal of the droplet chain

B-395 Pro: Your most important benefits



Aseptic

- Sterile encapsulation of cells, microorganisms and active ingredients
- Aseptic introduction and removal of fluids and products to and from the reaction vessel
- Possibility of integration in a GMP-compliant production process



Reliable

- Efficient, reproducible encapsulation process under low-impact process conditions
- Exceptionally tight particle size distribution
- High encapsulation efficiency and yield



User-friendly

- Intuitive to operate and easy to maintain
- Quick and easy process optimization thanks to visualization of droplet formation
- The BUCHI application database and BUCHI application support help you get the most out of working with the Encapsulator B-395 Pro

"The BUCHI Encapsulator B-395 Pro is the instrument of choice on the market for the sterile encapsulation of cells into polymeric beads and capsules, and can be integrated into a GMP process."

Prof. Bice Conti, Università de Pavia, Lab. Pharmaceutical Technology and Law (PT&L), Dept. Drug Sciences, Italy

Complete your portfolio



Mini Spray Dryer
B-290

World leading laboratory Spray Dryer



Nano Spray Dryer
B-90

Spray Dryer for small samples and particles



Encapsulator
B-395 Pro

Gentle, sterile bead and capsule production



Rotavapor®
R-300

Convenient and efficient rotary evaporation

