

Encapsulator B-395 Pro

For sterile microbeads and microcapsules



Encapsulator B-395

Your partner for the production of 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.

Precise generation of mechanical Sterile filter vibrations (40-6000 Hz). Aseptic introduction of reactive fluids. **HEPA** air filter Protection against contamination. Syringe pump For applications with small sample sizes. **Control panel** Intuitive control of process parameters. Pressure regulating valve Precise control of pressure up to 1500 mbar.

Reaction vessel*

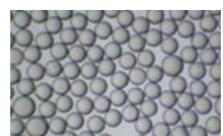
Pulsation unit

Sterile working volume of 2 L. *Also available with material certificates.

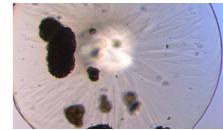
8 precision nozzles

80, 120, 150, 200, 300, 450, 750 and 1000 µm.

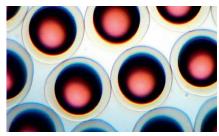
Application examples



PLGA beads with Ibuprofen



Encapsulated islet cells



Alginate capsules with oil core and red colouring

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B-395 Pro:

Your most important benefits



Syringe pump

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



Concentric nozzle system

Concentric nozzle system for creating coreshell capsules (dia. $200-2000 \ \mu m$).



Material certificates

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



Air dripping nozzle

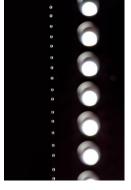
Nozzle system with airstream dispersal and minimized dead space, tailor-made for low-impact encapsulation of cell agglomerates.

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.



