



Center of Bioimmobilisation
and Innovative
Packaging Materials



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WE ARE A PARTNER

FOR PRODUCERS IN
THE PACKAGING, FOOD,
PHARMACEUTICAL, COSMETICS
AND HOUSEHOLD CHEMICALS
SECTORS

WE INCREASE YOUR CHANCES FOR COMPETITIVENESS IN A SCIENTIFIC WAY



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"Subsidies for innovations. Investing in your future".



Photo: RamanStation™ 400 Dispersive Raman Spectrometer (PerkinElmer)



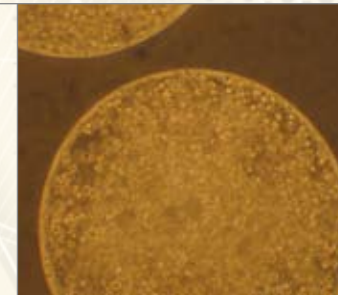
Photo: Laboratory Mini-Spray Dryer BÜCHI B-290

OUR ACHIEVEMENTS

Bioimmobilisation processes for various applications

BIOTECHNOLOGY

Immobilisation of microorganisms producing bioactive substances (e.g. bacteriocins)



Immobilized bacterial cells

WHAT WE DO

We provide help in research on application of bioimmobilisation for various technological and industrial processes, such as:

- biotechnological processes of conversion and waste recycling,
- protection and control of bioactive substance release,
- materials selection and design of new systems for bioimmobilisation based on biopolymers and their derivatives.

OUR GOALS

- a healthy society through health-oriented food additives and application of bioimmobilisation processes in pharmaceuticals and medicine,
- environment protection through innovative solutions based on intelligent materials and processes of selective bioconversion.

OUR ASSETS

- specialized staff with unique experience,
- high research potential and rich know-how,
- modern equipment and specialized facilities,
- applied research and implementation,
- experience in cooperation with industry.

BECOME OUR PARTNER

and thanks to jointly developed innovative solutions and technologies your company will soon become a sector LEADER!

If you are interested in our activities and would like to become our partner in the future, please visit our website at www.cbimo.zut.edu.pl and fill in the survey prepared especially for you. It will only take a few minutes of your time, but it will help us identify your needs and preferences for future cooperation. Of course, we encourage you to contact us directly by phone or e-mail.



Photo: Vibratory system for co-extrusive microcapsulation - Nisco Var B Gen II

CHEMICAL INDUSTRY

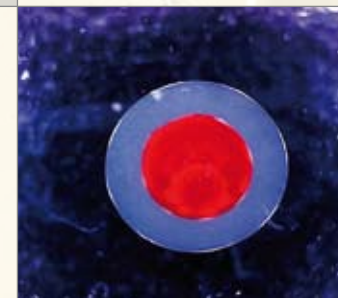
Methods of bioconversion including agri-food industry waste recycling (bioconversion to substrates for production of polymers)



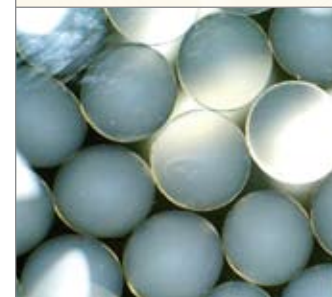
Microcapsules obtained using the coextrusion method

FOOD INDUSTRY

Immobilisation of biologically active substances including functional food additives (e.g. stabilized Omega-3 fatty acids) in the form of emulsion, hydrogel capsules and powder



Microcapsules obtained using the coextrusion method



Hydrogel microcapsules with increased strength

AGRO-TECHNICAL INDUSTRY

Hydrogel capsules containing active substances (controlled release of mineral fertilizers for lake recultivation and crop protection)