

Fermentation and Product formulation at the Institute for Environmental Biotechnology



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Objectives

The development and spreading of organisms which are resistant to antibiotics constitutes a problem which is becoming more and more serious.

In consequence of this the application of antibiotics as far as animal nutrition is concerned was restricted by the European Union massively in the last few years.

In order to provide an alternative to the so far used antibiotic growth promoters we are developing encapsulated probiotic product formulations.

These encapsulated probiotic products guarantee a gastric fluid resistance combined with a controlled release of the probiotics in the animals' gut – both attributes which are essential for the beneficial effect of the probiotic formulation.

Fermentation Plant (1 – 6,000 liter)

- Process Development
- Upscaling of Processes
- Co-operation with Industry



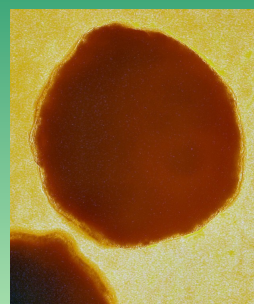
Process Development



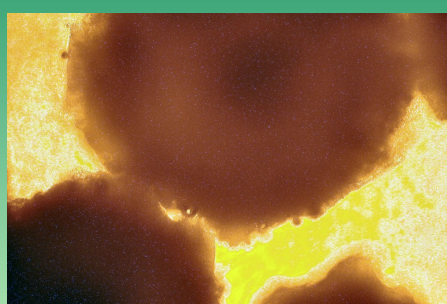
Production

Product Formulation

- Encapsulation/Coating
- Fluidized Bed Drying
- Spray Granulation



Encapsulated Sphere



Controlled Release



Yeast Drying



Spray Granulation