



Probiotics - Contract Research and Manufacturing Service (CRAMS) by Galilaeus

Galilaeus contract manufacturing is specialized in full-service fermentation package. Laboratory cultivation and fermentation process are followed by a complete down stream and delivery of the product. Our skilled personnel with long-term expertise in fermentation are the guarantee for excellent quality in all operations.

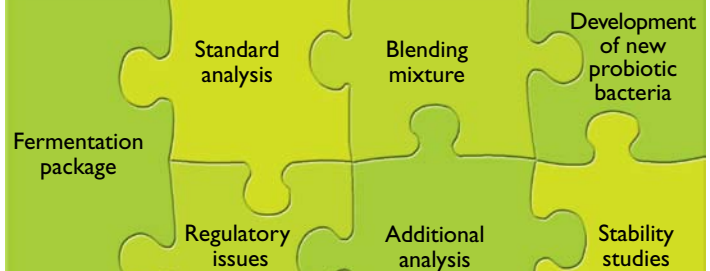
Full-Service Package in Contract Manufacturing

Galilaeus full-service contract manufacturing offers the complete package from receiving the strain up to delivering the requested product. All operations are in compliance with GMP.

- Fermentation of cell mass
- Analysis
- Cell mass – frozen/lyophilized/spray-dried product
- Formulation (optional)
- CoA - Certificate of Analysis
- Batch report (on request)

Service Blocks of Contract Manufacturing

As an alternative to the full-service package Galilaeus offers a selection of service blocks which could be completed by Galilaeus or by the customer, if so wished. In this way cost-efficiency will be further increased.



Galilaeus Probiotics - Scheme

Products

- Lactobacillus bacteria (e.g. L. reuteri, L. rhamnosus)
- Bifido bacteria (e.g. B. bifidum, B. longum)
- Bacteria owned by the customer

Project scheme

- Request/proposal/acceptance
- CDA (if desired)
- Contact person/communication
- Complete process
- Report, CoA and delivery

Fermentation package

- fermentation of cell mass
- standard analysis
- cell mass – frozen/lyophilized/spray-dried product
- CoA - Certificate of Analysis
- all operations in compliance with GMP

Regulatory issues

- registration e.g. supplements

Development of new probiotic bacteria

- customer request
- finding of candidates
- qualification/modification
- selection/characterization
- DNA fingerprinting
- patentability

Standard analysis

- viability
- microbial purity
- water content

Blending mixture

- probiotics
- active/inactive ingredients
- prebiotics

Stability studies

- accelerated stability
- real-time stability

Additional analysis

- pH resistance
- bile acid resistance
- antibiotic resistance
- antimicrobial activity
- food allergy tests
- water activity



Galilaeus Oy (Ltd.)

Kairiskulmantie 12 • FI-20781 Kaarina, Finland
 Phone: +358-20 7218 460 • Fax: +358-20 7218 461
 galilaeus@galilaeus.com • www.galilaeus.com