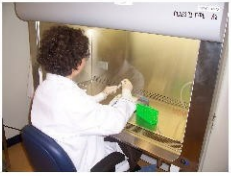


The laboratory for food and veterinary biotechnology (LBVA) was established for the production of biotherapeutics made via animal or bacterial cell culture.

The production of biotherapeutics for human or veterinary use is subject to several regulations and guidelines. To conform to the regulations, the LBVA has adopted a production system based on current Good Manufacturing Practices (cGMP).

The LBVA also contains a research and development laboratory for process optimisation, adaptation and scale up.



### Services

- selection and development of an expression system
- development of cell-culture processes (bacterial or animal cells), purification and formulation
- process transfer
- scale up
- production conform to cGMP
- process validation
- regulatory documentation

### Production facility

- clean rooms
- separate units for:
  - bacterial culture
  - viral vectors
  - animal-cell culture
  - purification
- bio-risk levels 1 and 2
- clean utilities:
  - purified water
  - process air
  - pure steam
  - medical gasses
  - water for injection

### Information

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### Equipment

- bioreactors and fermentors up to 100L
- lyophiliser
- roller deck incubators
- tangential flow filtration systems
- chromatography system
- equipment washer
- sterilisation and decontamination autoclaves
- cleaning and sterilisation in place (CIP/SIP)
- process vessels
- homogeniser



### Personnel

The LBVA personnel has several years of experience in the (bio-) pharmaceutical industry with:

- production
- development
- maintenance and calibration
- validation
- quality control
- quality assurance



The LBVA can partner with you, from development of an expression system for your DNA sequence and production of clinical or licensing batches, all the way to commercial production of your product.