

The Production Association (PA) Sibbiopharm Ltd is a modern biotechnological plant that meets market and consumer requirements:

It offers large-tonnage product manufacturing based on technologies providing aseptic conditions of microorganism cultivation and parameter maintenance in automatic mode.

It comprises modern laboratories and new warehouse, unique equipment for biotechnologies scaling and for preparing of liquid enzymes.

It possesses enough space to enlarge its manufacturing facilities.

It cooperates with more than 20 leading research institutes and education centers in Russian Federation and abroad.

The Production Association (PA) Sibbiopharm Ltd is an industrial area ready for:

- **For innovation center establishment**
- **For joint manufacturing**
- **For contract manufacturing**

The Production Association (PA) Sibbiopharm Ltd is included into the federal register of high quality product suppliers.



The Production Association produces and supplies the following products:

Enzymes:  
AMYLOLUX - A  
AMYLOSUBTILIN G3X  
LOW-TEMPERATURE AMYLASE  
HIGH-TEMPERATURE AMYLASE  
PROTOSUBTILIN G3X  
CELLOLUX - A  
CELLOLUX-F  
GLUCAWAMORIN G3X  
GLUCOLUX - F  
KORMOMIX - ENZYME  
POLIFERMENT

Antibiotics for animals:  
BACILICHIN  
BIOVIT

Fodder mixtures:  
FERMOLUX  
FERMOLUX - P  
KORMOMIX - COMPLEX  
KORMOMIX - PATOKA

Silage products:  
BIOSIB  
FERKON

Plant protection product:  
LEPIDOCIDE  
BITOXYBACILLIN  
BAKTOFIT  
PLANRIZ

Plant growth stimulator:  
GIBBERSIB

Larvicidal agent:  
BACTICIDE

Product for water and soil purification from oil:  
DESTROIL



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**The Production Association  
SIBBIOPHARM LTD**

**MODERN  
ENTERPRISE  
IS THE LEADER  
OF RUSSIAN  
BIOTECHNOLOGY**

**SIBBIOPHARM**  
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**SIBBIOPHARM**



## The Production Association (PA) Sibbiopharm Ltd high-performance manufacturing equipment

### The manufacturing complex comprises:

- Culture medium preparation area
- Raw materials and finished products warehouse
- Fermentation area with fermenters (V= 63 m<sup>3</sup>) and with automatic control system for fermentation process
- Culture liquid processing area (concentration, purification, dehumidification)
- Micro- and ultra-filtration equipment
- Central manufacturing laboratory equipped with the modern facilities and devices
- Technical control service
- Sanitary surveillance
- Pilot equipment for industrial experimental technologies scaling
- Chromatography
- Compressor and refrigeration system
- Filter press and vacuum drum press
- Spray drying equipment

All the above-mentioned equipment allows to arrange new product manufacturing in the most effective way, according to joint or contract manufacturing type.



THE PRODUCTION ASSOCIATION (PA) SIBBIOPHARM LTD HIGH-PERFORMANCE MANUFACTURING EQUIPMENT

## Pilot manufacturing complex equipped with Swiss pilot equipment for industrial experimental biotechnologies scaling

Pilot equipment is located in working area of industrial fermentation with modern laboratories of microbiological biochemical control.

### Pilot equipment configuration:

- 12 fermenters (V= 6,7/4,5 liters)
- 3 fermenters (V= 16/10 liters)
- 2 fermenters (V= 150/100 liters)
- 2 centrifuges for continuous separation (laboratory and pilot) capacity: 10 - 2000 l/h, 15 - 40000 rpm
- chromatography fraction collector (ÄKTA Purifier), HPL chromatograph, analytical control instruments



### Pilot equipment may be applied for processes under aseptic conditions:

- For adjustment and optimization of cultivation parameters (aeration, feeding, media, etc.), new technologies, for assessment of new fermentation technologies and application methods
- For preparation of biological fluid and biomass upon consumer request
- For low-capacity technology of microbiological synthesis and release of biologically active composition applied in biotechnological product manufacturing for scientific, diagnostic and medical purposes.

The set of equipment may be completed according to the specific technology of a customer.

The Production Association (PA) Sibbiopharm Ltd is a modern biotechnological plant. Innovation center may be created on its base to modify modern biotechnological product manufacturing regulations: Antibiotics, Enzymes, Amino acids, Vitamins, Plant protection products and other biological active substances for various sectors of economy.



PA Sibbiopharm production is used in Russian Federation and abroad (countries of CIS, European Union, South and Southeast Asia, Middle East).

PILOT MANUFACTURING COMPLEX EQUIPPED WITH SWISS PILOT EQUIPMENT

