

**BIOTECH**  
**contract**  
**development**  
**manufacturing**



*Always there*





**3P Biopharmaceuticals is a Contract Manufacturing Organization (CMO),** specialized in the development and manufacture of biologics and cell therapy products for pre clinical and clinical trials and commercial stages in GMP conditions.

**GMP certified** by the **AEMPS\***

API for clinical trials and commercial.

QC and release of medicinal products  
for clinical trials and commercial.

\*Spanish Medicines and Sanitary Products Agency

# WHAT WE OFFER

Development and manufacture of:

## BIOLOGICS



### Proteins

- Recombinant proteins, native proteins, monoclonal antibodies, fusion proteins.
- Vaccines
- Biosimilars

### Other biological molecules

- Peptides
- Lipids
- Carbohydrates
- Complex molecules

## CELL THERAPY products



### Advanced Therapy Medicinal Products

- Cell therapy products
- Tissue engineered products

### Intermediate products:

- Cell culture media
- Biomaterials (scaffolds or membranes)

# RELATED SERVICES

## BIOLOGICS



- Generation of protein **expression systems**.
- Development and validation of **analytical methods**.
- Generation and characterization of **MCB and WCB**
- Cell bank** storage.
- Development of **stability studies**.
- Release of **raw materials, drug substances** and **drug products**.
- GMP and Regulatory **consulting** assessment.
- Fill & finishing.

## CELL THERAPY products



- Isolation, culture (normoxia or hypoxia) and harvest** in GMP and non-GMP conditions.
- Generation, characterization, storage and stability studies of **cell banks**.
- Autologous or allogeneic** process.
- Scale up** in different culture systems
- Analytical development and Quality controls for cell therapy process**
- Final product formulation** for cell based therapies
- Logistical** services and shipping validation protocols
- GMP validation process**

# INTEGRAL SERVICE

## POC/ Basic research

- Generation of basic expression system
- Protein Engineering
- Basic development
- Lead candidate selection
- Prolongation of protein half life
- Non GMP small scale production

## PC

- Generation of stable expression system
- Development of scalable bioprocess
- Development of analytical methods
- non-GMP/GMP like production
- Preliminar stability studies
- Preliminar API formulation studies

## PC Tox.

## I

## IIa

## IIb

## III

- Scalability
- Optimization process
- Generation/characterization MCB/RCB
- Qualification of analytical methods
- Raw material release
- GMP production
- Stability studies
- API formulation
- Impurity profiling
- Traces analysis
- Fill&finish
- Generation of CTD documentation
  - Validation of analytical methods
  - Cleaning validation
  - In process control

## Registration

- Validation of process
- GMP production
- Formal stability studies
- Generation of CMC-IMPD documentation
- Pilot batches

## Market

- Ordinary GMP production
- Stability ongoing studies
- Postmarketing trials

# STATE OF THE ART FACILITY



- ⊖ Prokaryotic Area: fermentors 10L, 100L, up to 1.000 L
- ⊖ Eukaryotic Area: bioreactors 50L, 200L, up to 2X200L (disposable)
- ⊖ R&D Area for full process development
- ⊖ QC and QA Area

**Clean rooms D, C and B**

# QUALITY SERVICES

☞ **GMP certified by the AEMPS** (Spanish Medicines and Sanitary Products Agency)



☞ **Flexibility and adaptation** to client quality requirements, while maintaining GMP rules requirements.

☞ **Biosafety level II**

☞ Wide range of **analytical methods**:

- ☞ Potentiometric methods
- ☞ Spectrophotometric methods
- ☞ High Pressure Liquid Chromatography (RP-HPLC, SEC-HPLC...)
- ☞ HCP determination
- ☞ Endotoxins determination
- ☞ DNA determination by Q-PCR
- ☞ Immune activity assays (WB, ELISA, etc...)
- ☞ Bioassays
- ☞ Isoelectric focusing and SDS-PAGE
- ☞ Microbiological contamination (Bioburden)
- ☞ Others





# R&D ACTIVITY

- Technological platforms for process development of biologics
- Platform for development of biosimilars
- Generation of stable cell lines using the SFV3P system



# TRACK RECORD

## BIOLOGICS



### Biological **GMP** production:

- Phase I (lipids derivatives / recombinant proteins / vaccines). Bacterial and yeast process.
- Phase II (recombinant membrane proteins). Mammalian process.
- Commercial stage (fusion protein vaccines). Bacterial process.

### Biological **non GMP** production:

- Proof of Concept (mAb's / fusion proteins / enzymes)
- PreClinical (recombinant proteins)

## CELL THERAPY products



- Development of cell culture media and biomaterial for clinical use.
- Development and production of stem cells for allogeneic cell therapy. Clinical trial phase I.
- Manufacture of a tissue engineered product for autologous treatment of skin lesions.

**EMPLOYEES** 64  
**HEADQUARTERS** Navarra, Spain  
**FACILITIES** 50.000 SQ FT



Navarra

Madrid

Barcelona



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