BIOLOGICS Clinical Manufacturing

EXPERTISE

 Tailored solutions for manufacturing of diverse range of biologics Proteins (antibodies, fusion proteins, enzymes, virus like particles and vaccines) Prokaryotic and eukaryotic expression systems Live/inactivated bacteria



- From cell banking to fill & finish
- Clinical trial supply including secondary packaging & logistics
- Focus on quality and fluent technology transfer



DRUG SUBSTANCE

Manufacturing

- Cell banking services (MCB, WCB, EoPC)
- Buffer preparation, upstream processing (cell culture and microbial), downstream processing
- Technical batches and scale-up
- GMP manufacturing
- Storage (2-8°C, -20°C, -80°C, vapour phase of liquid nitrogen)

Testing & Characterization

- Extensive analytical toolbox for IPC, release and characterization testing
- Analytical method qualification/validation
- GMP MCB/DS/DP stability studies

CAPABILITIES

- Human IMP licensed manufacturing facility (FAHMP)
- Grade C suites, ISO 5/7 cleanrooms
- Fermentation and cell culture activities in segregated suites (BSL2)
- State of the art, single-use equipment





- Qualified equipment
- Environmental monitoring program







BIOLOGICS Clinical Manufacturing

DRUG PRODUCT



Sterile manufacturing

- Liquids
- Freeze dried products



Type of packaging	Volume/Units per batch
Bulk	From < 0.5 L & up to 20 L
Vials	Up to 5,000 units (e.g. 2R vials)
Syringes	Up to 5,000 units (e.g. syringes 1 mL long)

Other packaging upon request

Non sterile manufacturing

- Live biotherapeutic products
- (coated) Tablets or capsules
- Spray-dried powder

Form	Batch size
Solutions, suspensions, emulsions	5 mL up to 50 L
Semi-solids	5 g up to 50 kg
Tablets	100 up to 200,000 units
Capsules	100 up to 200,000 units

QP confirmation & release

FACILITIES

- Cell banking
- Sterile manufacturing
- Non sterile manufacturing

YOUR DRUG DEVELOPMENT PARTNER



Cell banking Process



Process Clinical development manufacturing (DS/DP)



FRANCE

Artigues

Martillac

Idron

ANSES ANSM AFMPS FAGG FDA PMDA







VISIT OUR WEBSITE





