

Summary of capabilities

Seneffe, Belgium

Viral vector manufacturing facilities

Overview:

Our Seneffe facility is designed to provide comprehensive [viral vector services](#), from process development to commercial manufacturing. This facility has over 20 years of experience in virus and viral vector manufacturing and has been approved by the EMA and the FDA for clinical & commercial vaccine production. Spanning 3200 m² (34,000 sq ft), it excels in the manufacturing of viral vectors for both clinical and commercial applications. The facility provides clinical and commercial manufacturing, as well as [fill-finish services](#).

Thermo Fisher's centralized warehouse at Seneffe offers 4,000 m² (43,000 sq ft) of storage space for raw materials and equipment. For information on our viral vector development and analytical services at Gosselies, [click here](#).

Facility facts		Specialized capabilities
Capacity:	3,200m ² (34,000 sq. ft.)	<ul style="list-style-type: none"> • Experience in viral vector, virus clinical and commercial manufacturing for cell and gene therapies, vaccine applications and other therapies • 4 cGMP manufacturing lines (17 suites) for upstream and downstream processing (2,600 square meter, ~28,000 square feet) • Mid to large scale capacity: up to 2,000L scale • Suspension and/or adherent modes • Dedicated fill/finish plant (500 sq.m, 5,400 sq. ft.) • Automatic filling (up to 10,000 vials/session) • Customizable (volume, stoppers, vials) • 2mL to 100mL vials • Filled volume: 0.25mL to 100mL • Process validation lifecycle including PC, PPQ and CPV. • Quality control labs (750 sq.m, 8,000 sq. ft.) • cGMP analytical method expertise including method validation
Regulatory approval:	AFMPS, Belgium - Agence Fédérale des Médicaments et Produits de Santé Food & Drug Administration (FDA)	
Contact info:	16 rue Clément Ader, 6041 Gosselies, Belgium Tel: +32 71 347900	

Viral vector services capabilities detailed overview

Facility Offering	Specifications
Aseptic Fill and Finish Services	<ul style="list-style-type: none"> • Clinical and commercial Fill & Finish facility • Automatic filling under isolator • Up to 10,000 vials per session • 2 suites • Grade C formulation suite with operations under biosafety cabinet grade B and aseptic suite with operations under grade A (isolator)
Quality Control Labs	<ul style="list-style-type: none"> • Centralized QC • Compendial tests • Identity test • Specific testing • Elisa, qPCR, cell culture base test, TCID 50
Clinical Manufacturing & Commercial Manufacturing	<ul style="list-style-type: none"> • Clinical and commercial Drug Substance facilities, manufacturing suites for mid to large-scale production • Suspension using bioreactors ranging from 50L to 2,000L • Adherence mode in CS10 or HS36 • Experience in Fixed-bed bioreactor (iCELLIS™) • Up to 4 productions in parallel • 4 production lines (17 suites) • Grade C production suites with operations under biosafety cabinet grade B • Modular area cGMP multiprocess/Clinical facility, multiproduct facility

Summary of capabilities

Flexible equipment options to scale manufacturing processes (Gosselies & Seneffe):

Platform	PD / Phase I–II	Ph I–III / PPQ / commercial
Adherent HEK293/Vero/others	ICellis Nano/ ICellis 500 24 CS10 15 HS36	ICellis 500 24 CS10 15 HS36
Suspension HEK293	From 50L to 200L	From 50L to 200L
Suspension Sf9 / Baculovirus	From 50L to 200L	From 50L to 200L
Suspension other	From 50L to 200L	From 50L to 200L
Perfusion	From 50L to 200L	From 50L to 200L
Drug product		
Fill and finish	Up to 10,000 vials	

Production platforms and processes:

ADENOVIRAL

Adherent + Suspension
Mammalian cells infection

ADENO-ASSOCIATED VIRUS (AAV)

Producer cell line + Adv
Mammalian cells infection

Adherent + Suspension
Mammalian cells transient transfection

Adherent + Suspension
Insect cells – infection

HERPESVIRAL

Adherent + Suspension
Mammalian cells infection

LENTIVIRAL

Adherent + Suspension
Mammalian cells transient transfection

RETROVIRAL (RV)

Adherent + Suspension
Mammalian cells transient transfection

HERPESVIRAL (HSV)

Adherent + Suspension
Mammalian cells transient transfection

MODIFIED VACCINIA ANKARA MVA

Suspension
Infection + avian cell time

VESICULAR STOMATITIS VIRUS (VSV)

Adherent
Infection + Mammalian cells transient

VIRUS-LIKE PARTICLES (VLP)

Suspension
Insect cell + Mammalian infection

In addition, our team is experienced in supporting a variety of other viral platforms and other related products like VSV, RSV, Exosomes and more. For detailed capabilities and capacity information, [please contact us](#)

Summary of capabilities

Seneffe, Belgium

Viral vector centralized warehouse

Overview:

Thermo Fisher's Seneffe centralized warehouse offers 4,000 square meters of storage space for raw materials and equipment.

Seneffe warehouse facts		Specialized capabilities
Capacity	4,000 m2 (43,000 sq ft) storage space for raw materials and equipment	<ul style="list-style-type: none"> • Centralized storage area for 20°C, 5°C, -20°C and -80°C raw materials • Segregation between GMP and non GMP raw materials • ADR Management • QC Sampling Room in place • Monitoring system through FMS and AMS in place
Contact info	Parc Industriel Paysager de Tyberchamps 17 B-7180 Seneffe, Belgium Tel: +32 71 347900	

For detailed capabilities and capacity information, please [contact us](#)



Summary of capabilities

From molecule to medicine: An integrated partner for every step in your drug development journey.

Thermo Fisher Scientific provides industry-leading pharma services for drug development, clinical trial logistics, and commercial manufacturing through our Patheon™ brand. We partner with customers in the pharmaceutical, biotech, and life sciences industries as their trusted CDMO to deliver medicine to patients faster. With more than 60 facilities around the world, we provide end-to-end pharma services across all phases of development and commercial manufacturing, including API, oral solid dose, biologics, cell therapy, mRNA, viral vectors, formulation, clinical trial solutions, logistics services and packaging. We couple our scientific and technical excellence in these areas with a strategic partnership to provide customers of all sizes access to a global network of facilities and dedicated experts across the Americas, Europe, Asia, and Australia. Through our integrated service offerings, we provide tailored solutions to fit your unique drug development journey, accelerating your time to market.



Discover the power of partnership and our global network.