

Contract manufacturing: You can count on us!

Partnering to produce high quality, life-changing biotechnological treatments for patients



Over 40 years of proven track record in biologics manufacturing

World leading in Cell & Gene Manufacturing

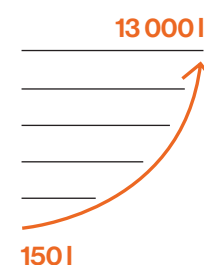
Experience
Quality
Innovation
Reliability

High-end solutions in scalable cGMP facilities



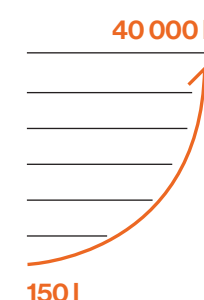
Mammalian Cell Culture

State-of-the-art mammalian cell culture manufacturing facilities in Europe and Asia for clinical and commercial material, ranging from 150 to 13,000 liters.



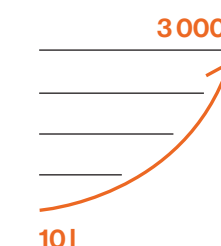
Microbial Manufacturing

Customized solutions and efficient handling for your microbial-based products, with upstream and downstream capabilities ranging from 150 to 40,000 liters.



Plasmid DNA & RNA

High-quality plasmid DNA and RNA manufacturing for various types of RNA drugs (including siRNA), mRNA vaccines and innovative gene and cell therapies, up to a scale of 3,000 liters.



Cell & Gene

Rely on a leading Cell & Gene therapy manufacturer with an excellent team and high-tech facilities.



Viral Vectors

Producing viral vectors for vaccines or cell and gene therapy in a state-of-the-art facility.



Fill & Finish

A fully integrated set of services and solutions for aseptic fill and finish of medicinal products. Available packaging systems and volumes include:

- Vials (liquid, lyophilized)
- Pre-filled syringes
- Low-level siliconized syringes
- Droptainers
- Ampules
- Tubes



Cell Bank Manufacturing

Manufacturing master cell and working cell banks to enable high-quality clinical and commercial production.



Quality & Regulatory

We follow a comprehensive Novartis quality assurance system, with all our facilities operating in compliance with cGMP regulations.

Contract manufacturing: Cell therapy solutions

Leading the way in cell therapy manufacturing



Bringing your cutting-edge therapies to market

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1 Logistics

Our **expert logistical network** and proven chain of identity capabilities ensures the safety and security of your product.

- The supply chain management setup ensures a best-in-class cell line identity
- Cryopreservation

2 Clinical & Commercial GMP Manufacturing

As the first to market commercial CAR-T manufacturer, we offer proven **scale up capabilities**, reliable **manufacturing processes** and unsurpassed **industry knowledge**.

- Cell culture & expansion
- Industry standard equipment and automation
- Data collection and processing

3 Advanced Analytics

Advanced **analytical capabilities** for release, stability and characterization.

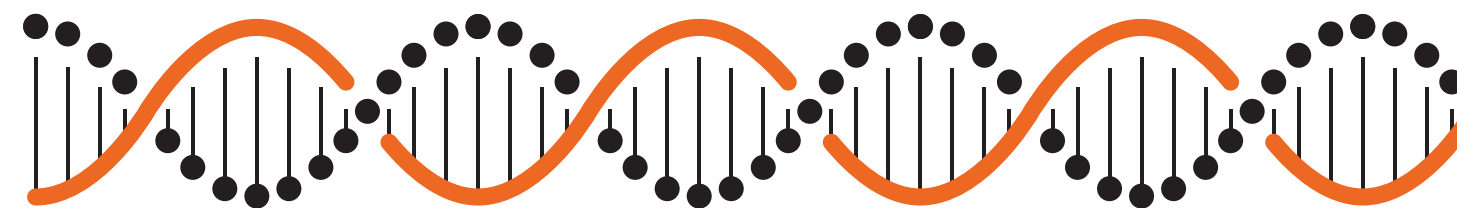
- Bioassay
- Flow Cytometry
- Impurity testing
- qPCR
- Microbiology
- Cell banking
- Raw materials

4 Life Cycle Services

Life cycle services built on high-end quality & regulatory standards.

- Technical Transfer
- Validation
- Training

Your cellular therapy product life cycle is covered



You have the tasks. We have the resources, the facilities – and the right people to exceed your expectations. To find out how we can help, get in touch at biotech.cooperations@novartis.com / www.novartis.com/globalbiotechcooperations