

# clean cells

SOLUTION FOR BIOLOGICS

## STORAGE OF BIOLOGICAL PRODUCTS IN GMP ENVIRONMENT OR R&D GRADE

As biological products require a specific and controlled environment, storage is an important aspect of cell and virus banking.

Since 20 years, Clean Cells offers storage of biological materials, in secure and monitored conditions, to ensure the long term quality of your products.

### PRODUCTS WE CAN STORE



Cell banks  
(Eukaryotic or prokaryotic)



Virus seed stocks



Reagents



At Clean Cells we store your biological products for short or long term period, according to your needs.

We can store various biological substances such as eukaryotic and prokaryotic cell banks (MCB/WCB), virus seed stocks (MVSS/WVSS), proteins, reagents and bacteriophages, from grade BSL-1 to BSL-3, GMOs (Genetically Modified Organisms) and «MOTs» («MicroOrganismes et Toxines», a specific French regulation).

- GMP environment
- Qualified storage equipment in a dedicated area
- Restricted access to the storage area to authorised employees
- Possibility to optimise the security by splitting your samples in two separate storage units
- Continuous monitoring of the temperature, with a 24/7 alarm system
- Complete back-up systems and power supply

In addition to storage we also offer many other services. We can help you with the production of starting materials such as cell banks and virus seed stocks.

To complement the production, we perform GMP-release testing to ensure the identity of cells and to guarantee sterility and the absence of mycoplasma, and full characterisation of the cell banks and virus seed stocks.

We can also perform release tests and characterisation of your cell lines or virus stocks produced elsewhere, and GMP compliant biosafety testing of your recombinant proteins, antibodies or nucleotides.



### ASSOCIATED SERVICES





















- Production of starting materials,
- Recovery assays,
- Biosafety testing



## OUR CAPABILITIES & TECHNOLOGIES

Our storage equipment is qualified for the preservation of a variety of biological products. We propose a range of suitable equipment to guarantee the optimal storage conditions for each product:

- For your reagents we propose fridges at +5 °C and freezers at -25 °C.
- Viruses and prokaryotic cells need to be stored in very low temperatures, ensured by our ultrafreezers at -80 °C.
- Your eukaryotic cells demand extremely low temperatures, and for these products we offer storage in cryocontainers with pharma grade liquid nitrogen to ensure temperatures <-145 °C in the vapor phase or -196 °C in the liquid phase.

	+5 °C	-80 °C or -25 °C	<-145 °C
Shared storage			
Dedicated storage	N/A	N/A	
Periodic storage report			
Continuous temperature monitoring			
Automatic or manual measurement of LN2 levels	N/A	N/A	
Externalized alarm system with on-call workers			
Semi-automatic or manual LN2 filling	N/A	N/A	
Backup equipment			
Backup supply power			N/A

## STEP BY STEP

### Sample receipt

As soon as we receive your sample, we check that the shipping was compliant, inform you, and enter the sample into our tracking system. Your sample is then tracked until you chose to withdraw it, to give you full tracability.

### Short or long term storage

We offer both short and long term storage, as well as storage in continuation with our other activities, notably cell bank production. The long term storage is on an annual basis, and can be prolonged as needed.

### Annual storage reports

We will edit on demand and send you annual reports of your storage. In the reports are included: updated inventory with the latest movements, temperature monitoring, LN2 level monitoring and measurements (if applicable), possible environmental deviations.

### Sample withdrawal

At any moment, you can chose to withdraw some or all of your samples. We then coordinate the shipping with your preferred shipping service, and include a temperature probe.