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Description GMP/GLP-compliant commissioning concept for systems with Liquid nitrogen, which meets specified customer requirements and contains the necessary documentation required for the proof of GMP/GLP-compliant storage of biological material under nitrogen cold.



- Procedure**
- Unpacking and setting up containers at the operating site
 - Assembly and function test of sensors, controllers and power supply
 - Calibration of the temperature sensors with calibration certificate
 - Parameterize the controllers and sensors with setting log
 - Commissioning of all nitrogen supply lines with leak test
 - Interior cleaning of containers and storage systems for commissioning
 - Cooling/cold run of the system
 - Functional and safety briefing of the operating personnel

The commissioning, the results of the functional tests as well as the introduction/briefing are documented in detailed checklists and protocols.

- Options**
- Implementation of IQ/OQ according to customers validation documents
 - Issuing of the IQ-Documentation
 - Issuing of the OQ-Documentation