

SOL Group has subsidiaries and production plants in the main European countries, in Turkey, Morocco and India

Cryolab

Research and development
in Biotechnologies and Cryobiology



Cryolab

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CryoLab is a Biotechnologies and Cryobiology development Centre, the result of cooperation between the Medicine and Surgery Faculty of the “Tor Vergata” University in Rome and SOL Group, which made it possible to create an infrastructure for the conservation of biological samples accredited by the Italian Ministry of Health and for the development of cell manipulation protocols that is unique of its kind in Europe.

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CryoLab was formed as a university “spin-off” involving researchers at the “Tor Vergata” University in Rome and today is a “**Facility Management**” in Translational Medicine, Biotechnologies, Regenerative Medicine, cell concentrates and stem cell Manipulation and, more generally, in **Biobanking and Cryobiology**.

The SOL Group has a professional history of more than eighty years, and is European leader in the design, construction, implementation and management of **Cell Factory laboratories and cryobiological rooms**, and also in the production of technical gases used in medical processes.

Cryolab Srl is a company dedicated to the biotechnologies sector that has its roots in Italy but is enjoying continual growth in Europe and worldwide.

At the heart of Cryolab’s activities, in addition to **biological sample conservation services**, are **biotechnological research, technical design, the development and production of materials and new application environments**, and attention to the future possibilities that biotechnologies are able to offer.

WHAT WE DO

CryoLab is authorised by the Italian Ministry of Health (prot. N° DGPRES 0022082-P-04/10/2013) to carry out services for Centres of Medically Assisted Procreation, Blood Banks and Biobanks.

Disaster Recovery Plan Management

Legislative Decree n.23/2004 requires the intervention of a third party able to step in in the case of temporary unavailability of laboratories and/or storage areas following unexpected catastrophic events or permanent and serious damage to one or more nitrogen tanks or the interruption of the supply of liquid nitrogen for various reasons.

CryoLab has all the characteristics needed to carry out activities in support of the emergency plan (DISASTER RECOVERY PLAN) of banks of tissues and cells for therapeutical or research uses.

Transport of gametes, zygotes, embryos and gonad tissues

with equipment and dedicated and specifically trained operators holding a certificate of Professional Training and vehicles equipped under ADR/RID, IMG CODE and IATA regulations.

Transport from place to place using controlled temperature containers. Standardised withdrawal kits, in accordance with specific withdrawal or storage needs.

Dedicated dispatch using selected Couriers.

Handling of transport via “Fast Couriers”, using prepaid delivery documents with barcodes.

Sanitising of containers before use.

Short, medium and long-term storage of gametes, zygotes, embryos and gonad tissues

Storage in liquid nitrogen.

Storage in nitrogen vapour.

Storage in mechanical freezers.

SERVICES FOR LABORATORIES

CryoLab is the translation, in the clinical and scientific research environment, of “Service Provider” or “FacilityManagement”, applying these concepts to the fields of Translational Medicine, Molecular Biology, Biotechnologies, Regenerative Medicine, the Manipulation of cell concentrates and stem cells, Biobanking and Cryobiology.

TRAINING

Cryolab organises theoretical and practical courses (with traditional lessons and laboratory activities).

Theoretical and practical ECM courses.

Informative and in-depth seminars.

Training in laboratory techniques for biotechnologies and cryobiology.

Customised training.

Tutorship programs.

OPERATIONAL PERSONNEL

Cryolab provides, on the basis of specific requirements, one or more qualified technicians to manage all processes of banking and traceability of biological samples, to manage validation and maintenance operations, and for the carrying out of targeted training and pre-inspection audits.

- **Container validation** according to JACIE-FACT-NETCORD and cGMP guidelines, with the drawing up and issuing of IQ, OQ, PQ and VMP protocols.

- **Creation of Standard Operational Procedures (SOPs)** for all processes relating to cryobiological room activities and for cell manipulation (minimal/ extensive).
- Support in the execution of cell manipulation (minimal and extensive) and cryopreservation of biological material, thanks to staff highly qualified in Cryobiology and Cell Therapy.
- Creation and implementation of the **Microbiological contamination plan/ programme**.

