



MTS
cryostores

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Off Site Sample Storage Specialists



**Bio
Banking**

**Transport
of Frozen
Specimens**

**Disaster
Recovery**

**Storage
Equipment**

About us

MTS Cryo Stores is a secure, offsite bio repository facility based in Nottingham which is easily accessible from anywhere in the UK. We started operating in 1999 under the banner of our mother company “Cool Repair Scientific UK Ltd” with our first disaster recovery of a -150°C freezer containing stem cells.

Since then the company has grown and so has the range of services we offer. We have in place a Human Tissue Authority Licence Number 22499 for Research & Human application material and are ISO 9001:2008 accredited. MTS Cryo Stores is a secure off site facility which stores materials such as clinical trial samples, laboratory research material and stem cells, at a range of temperatures: ambient, +4°C, -20°C, -40°C, -85°C, -150°C and -190°C. Complete sample and/or freezers transportation and courier service for samples from anywhere in the world can be readily arranged.

OUR SERVICES ARE DESIGNED TO MEET THE NEEDS OF:

- General Hospitals
- Private Hospitals
- Universities
- Pharmaceutical and Biopharmaceutical companies
- Blood Banks
- Commercial Laboratories
- Clinical Trial Projects
- Veterinary Centers
- Fertility Clinics
- Overseas Pharmaceutical Companies
- Contract Research Organisations (CRO's)
- Cell Bank Storage

Our services are designed to allow you to store your samples at our premises in purpose built sample storage rooms. The facility has been designed to house up to 125 large capacity -85°C ultra-low temperature refrigeration freezers (ULT) and a large number of cryo liquid nitrogen vessels (-190°C) and walk-in cold rooms. This enables the facility to store well over 5 million samples. The facility has a backup program in place (liquid nitrogen) to cover for individual equipment

failure, along with constantly running backup freezers and standby units. For complete power failure there is a permanent diesel generator back-up supply which is also backed up by an on call rental unit. We have an in house team of Ultra Low Temperature Refrigeration Engineers to deal with any emergencies that might arise 24/7, 365 days a year. Our engineers have over 20 years experience of working with and handling low temperature equipment and are experts in their field.

We cater for the smallest amount of storage, such as a single box of samples all the way through to supporting complete research projects. We are proud of our personal, friendly and professional approach. We are small enough to care & big enough to cope. Our prices start for storage of a single box of samples, to a full shelf or complete freezer, up to any volume the client requires. (Discounts on volume and the term of contract are available). Whether you require storage for a year, or more than 15 years then we are sure we can help. We are also interested in working with companies at their site “offsite on-site storage” to help with their freezer and sample management issues.



Bio Banking

We understand the limitations of physical storage space and security required to centralise your study specimens and reducing your carbon footprint by easing the electrical power strain at your site. Utilising off-site storage increases your laboratory workspace by reducing the amount of storage cabinets at your site and secures your samples for both temperature and access, enabling you to make more efficient use of your valuable resources. To address this need, we offer the option of a comprehensive specimen storage management service. ItemTracker® is our sample tracking software developed to solve the challenges associated with specimen management.

INTRODUCING OUR BIOLOGICAL SAMPLE STORAGE SERVICES

SHORT TERM SAMPLE STORAGE (UP-TO 1YEAR)

This service has been designed for organisations who have either a short term storage need due to an unexpected high influx of samples received into the laboratory, or because the freezer space has to be used for other purposes. Your boxes, plates or containers of samples can be stored at our facility and shipped back to you when required.

LONG TERM SAMPLE STORAGE AND RESEARCH STORAGE (MINIMUM 2 YEARS)

Research projects today often require long term storage facilities in order to meet increasing legislative commitments and regulations. Laboratory refrigeration space is at a premium and is ideally used for current research work. Our long term service is designed for you to store and recall samples when required. Why not move all your long term storage off site to our facilities, thus freeing up your own space for your immediate needs at your own site. We suggest that the best backup plan is placing copies of your material at our facility or with our partners in Ireland, Germany and Holland. Our primary commitment is looking after your material, the freezers and their support systems.

SERUM, PLASMA & BLOOD STORAGE

This service is designed to resolve the problems you may have in storing batches of serum, plasma and blood for ongoing use in your research project. When you order your serum batch, we can store it for you and release it to you as and when you require it, thus freeing your storage space for samples.

GMP STORAGE WITHIN VALIDATED EQUIPMENT

This service is designed to meet increasing legislative commitments and GMP regulations. Validated laboratory refrigeration space is at a high premium and involves significant commitment and effort for several members of staff.

Our GMP service is designed to enable storage in validated refrigeration cabinets, including backup freezer capacity, enabling provision of a dedicated GMP backup freezer for your contract. Samples may be recalled as and when required, so why not move all your long term storage off site to our facilities, thus freeing up your own space and staff time for your immediate needs at your site.



Freezer Hire & Transport

We only use companies such as World Couriers®, PDP, Yourway Transport® & Cryoport®, as these are supporting specialist courier companies. We take the details of your shipping needs, arrange for the collection then transport the samples at the desired temperature, deliver them to their destination and inform you of their arrival. You can track the status and any updates at any time during shipping.

We are able to transfer samples between sites or within the UK, Europe or worldwide. Biological samples can be stored at your required temperature anywhere from +4°C to -150°C. Infectious or sensitive samples are safely transported in accordance with any legal regulations. Our preferred couriers are experienced carriers of biological samples with many years of experience.

Storage Equipment



A wide range of quality laboratory freezers

We use a wide range of quality laboratory freezers from world leading manufacturers of refrigeration cabinets like Daihan®, IShin®, New Brunswick®, Revco®, Sanyo®, Queue® and Thermo-Forma®. For liquid nitrogen tanks we use Statebourne®, MVE® & Taylor Warton®.

MTS have their own range of storage equipment but can also house the clients equipment by treating it as our own and incorporating it within our comprehensive maintenance program. To avoid service and repair costs, the most effective way of preserving biological materials is by freezing and storing at Ultra low or cryogenic temperatures. The most important element of a low temperature storage system is ensuring a

TRANSPORT

We can arrange for any shipment size from a single sample to several freezers full of samples. This can be carried out by using our own truck which is fitted with a tailgate and an on board generator to keep your equipment running during transport, ensuring the material stays above the critical temperature. Temperature loggers placed in the freezers during transport from A to B ensures that the temperature is recorded during transport, copies of the temperature data can then be sent to you for your records.

We offer you a status update at any time during the shipping

constant range of temperatures below a minimum critical threshold (MCT). Superb temperature uniformity throughout the MTS Cryo Stores facility creates 100% storage efficiency, ensuring that your specimens exceed the MCT.

TEMPERATURE RANGES

All equipment is calibrated with UKAS traceable probes and is serviced and maintained regularly. Whether your specimens require refrigeration at 4°C, freezing at -20°C, -40°C, -80°C at -150°C or cryogenic liquid nitrogen storage at -196°C, you will receive the same uncompromising commitment from MTS Cryo Stores.



Disaster Recovery

MTS have recognised the need for Disaster Recovery Plans in the unfortunate situation of you potentially losing your samples. This can now be accommodated as part of the client's Contingency Plan. MTS have created a special service called "Sample Disaster Recovery Contract" with emergency couriers or our own truck kitted out with on board power generator, who can be on site between 4-6 hours* from the initial call-out, with the right packaging and sufficient dry ice to pack all samples and ship to the MTS facility, where they will be stored safely.

*time is subject to location and circumstances



Emergency couriers can be at site between 4-6 hours from call-out

THE WAY THE "SAMPLE DISASTER RECOVERY CONTRACT" WORKS:

You take out a low cost standby contract for an agreed number of samples/freezers and only pay for storage if needed (minimum 1 month storage charge). We will visit your site, carry out a site survey and create a plan of action for the disaster so all involved are ready if activated. We guarantee to have the agreed number of shelves/freezers or floor space available to store your samples in our freezers or your own equipment. When there is a disaster at your facility, we will contact the courier to collect the samples or use our own specially equipped transport truck to collect the samples and equipment to be shipped to our facility. On arrival of your samples or equipment, we will place the material in the designated standby freezers or place your equipment in the designated space in the freezer room. When the situation has been resolved at your site we will arrange return transportation. This arrangement provides peace of mind for your critical materials and could also help reduce your insurance premiums.

WHY DO YOU NEED A DISASTER RECOVERY PROGRAMME?

There are many different risks which can negatively impact on the normal operations of an organisation, including:

- Natural disasters, floods, lightning, storm damage
- Fire
- Power failure
- Organised or deliberate disruptions
- System and/or equipment failures
- Human error
- Legal issues

HOW CAN MTS HELP?

MTS offers a Disaster Standby contract which agrees storage space for your samples or freezers. By having this contingency plan in place it could help lower your insurance premium and help satisfy sponsors and stakeholders. This service is available 24 hours a day, 365 days a year.



Other



24
hour
security

SECURE STORAGE

MTS Cryo Stores has 24 hour security monitoring. Freezers are accessible only by authorised personnel. Your specimens are continually monitored for variation in temperature range required to maintain their minimum critical threshold. If there is a malfunction or system failure, prior to reaching the minimum critical threshold, the monitoring system will immediately notify staff and direct them to the freezer in question for the resolution of the problem. Records of all action taken are detailed with regard to the fault. Back-up freezers/ liquid nitrogen units are available to support the transfer of specimens in the event of a total equipment failure. All critical equipment and computer hardware is backed up with uninterrupted power supply (UPS) units. We have a permanently fitted diesel generator capable of providing power to all the freezers in the facility. We also have a backup generator disaster recovery plan for our own facility if the need arises.

VALIDATION SERVICE

MTS Cryo Stores provides at their site a cGMP compliant validation package for various temperature requirements of temperature controlled cabinets. From a single shelf to a full storage cabinet covering a broad range of storage temperatures. We supply the standard validation required for this industry or we can carry out the validation to suit the clients standards, producing a client validation report using the latest technology. This is used to generate the required temperature mapping studies and daily monitoring schedule. Periodical

and standard requirement validations and their validation reports can be obtained upon request. Customers who do not need an extensive validation program but still want to be assured that the freezer is operating within its expected range, and calibrated within UKAS standards can be achieved by our engineers as part of our comprehensive maintenance program. The quality of the equipment is the same throughout the facility, but the standard cabinets do not carry the additional comprehensive validation package.

SAMPLE INVENTORY MANAGEMENT

The ItemTracker® Electronic Sample Inventory Management System has been designed and developed for the sole purpose of reliably and securely processing, storing and retrieving large quantities of specimens and is compliant with 21 CFR Part 11 .

- Retrieve samples quickly and efficiently
- Book in & barcode biological samples as and when required
- Provides an audit trail to meet GMP, GXP, GLP and HTA guidelines

Why MTS Cryostores?

OUR SERVICES

- Bio repository and bio banking services
- Clinical trial management
- Using the best partners from storage facilities, CRO's and couriers
- Sample tracking
- Integrating your equipment into our service and management systems
- Dedicated to ensuring that your requirements are implemented
- Complying with HTA guidelines
- Hold a HTA license for Human Application & Research material

OUR KNOW HOW

- Dedicated and experienced engineers and staff
- Cold chain consortium
- Logistics
- Listening to client needs

- We care about our customers' needs and about sample management
- Data and sample inventory management

PEACE OF MIND

- Your samples are safely stored
- Your equipment is serviced and maintained by our engineers
- Our expert and friendly staff work with you
- Over 15 years experience in the industry
- On call engineers 24/7, 365 days a year
- Close client relationship
- Not dictated by shareholders

OUR COVERAGE

- We are a home grown UK company
- We are a top leading facility in the UK
- We have an impressive network of storage partners in Ireland, Germany, the Netherlands and the US

CLIENTS SAVINGS

- Clients laboratory floor space
- Reduction of carbon footprint
- Reduction of electric power cost & heat input
- More efficient use of staff and resources
- Equipment purchases



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**“MTS Cryo Stores; Striving for
new heights by storing samples
from the top of the world”**



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