

Frequently Asked Questions (FAQs): T-Store®

What is T-Store®?

T-Store® (Tissue Store) is a chemically defined and optimised media developed to provide a stable storage and shipping environment for mammalian tissue samples. The product has been designed to maintain the integrity of tissue samples, thereby reducing necrosis and apoptosis. T-Store® utilises a robust buffering system, allowing its use over a wide temperature range (+2°C to +37°C).

Why T-Store®?

T-Store® is the alternative solution to standard cryopreservation methods.

T-Store® mimics the basic composition of interstitial fluid, meaning that tissue's acid-base (pH) balance is maintained during storage and transportation. Designed to be isosmotic, isotonic and isoionic with human serum and interstitial fluid, T-Store® creates a homeostatic environment, allowing the tissue to be used successfully for up to 72 hours following removal.

What is T-Store® shelf life?

Regular T-store® has a shelf life of 18 months from the date of manufacture when stored at +2 - 8°C under dark conditions.

Adding antibiotics of any variety to T-Store® reduces the shelf life up to one month from the date of manufacture when stored at +2 - 8°C under dark conditions.

What are the recommended storage conditions for T-Store®?

Storing tissue samples using T-Store® allows the tissue to retain genetic and histological profiles for up to 72 hours.

Recommended long-term storage of T-Store® is +2°C to +8°C. To protect T-Store® from light exposure, it is recommended to store under dark conditions. When shipping tissue samples using T-Store® it is recommended to ship at ambient temperature.

What is the recommended volume needed for a sample?

The volume recommended will depend on the tissue size and size of the container requested. For optimal results, it is recommended that the tissue sample be fully submerged in T-Store® solution.

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Life Science Production

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What are the recommended conditions for culturing cell lines prior to storing using T-Store®?

1. Dissociate actively growing adherent cells or directly harvest suspension cells and calculate cell number and viability.
2. At room temperature, Pellet cells at 180 x g for 5 minutes and discard the supernatant. Re-suspend the pellet in 3 mL of T-Store® and re-pellet as before. Discard the supernatant.
3. Re-suspend the cell pellet in 2 mL of T-Store®, and transfer to a 2 mL cryo-tube (or equivalent).
4. Tubes can be stored in the dark at room temperature for up to 72 h. Robust cell types may be stored for up to 96 h.
5. To recover the cells, gently re-suspend them before transferring them into an appropriate vessel, containing a complete growth medium (there is no need to remove the T-Store® prior to recovery). Incubate cells under optimal conditions (e.g., humidified, 5% CO₂ incubator at 37°C).
6. Full cell recovery should be seen within 48 h.

What are the advantages and benefits of using T-Store®?

- T-Store® is a 'ready-to-use' transport and storage medium, suitable for collecting a wide range of cells and tissues.
- T-Store® provides flexibility to highly time-critical processes.
- T-Store® can be used at sub-normothermic (non-frozen) and/or normothermic temperatures.
- T-Store® offers stable pH-buffering of pH 7.20 - 7.45 for temperatures between +2°C to +37°C.
- T-Store® can be used in aerobic or anaerobic conditions.
- T-Store® is xeno-free i.e., free from serum and animal/human proteins.
- Endotoxin levels conform to EU standards (≤ 1.0 EU/mL) T-Store® is solvent free i.e., free from DMSO.
- T-Store® is aseptically produced and sterility tested.

Does T-Store® affect the quality of tissue for future assays?

T-Store® is a xeno-free product with no harsh chemicals that will penetrate and harm the integrity of the whole tissue for future analysis.

What are the certifications and regulations of T-Store®?

T-Store® is registered as a medical device with MHRA.

T-Store® is also UKCA and CE-marked.

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What tests are carried out on T-Store®?

There are several tests carried out such as pH measurements, osmolality, sterility conductivity as standard EP/USP testing methods, endotoxin screening, and in-house functionality testing.

Can I sample batches of T-Store®?

Sample batch testing is available upon request.

What pack sizes are available for T-Store®?

T-STORE® is supplied and available as a ready-to-use solution in various volume sizes as mentioned in Table 1.

Product Code	Product Description	Pack Size
T-STORE-X	T-STORE® Tissue Storage and Transportation Medium	50mL, 125mL, 500mL, 1 L
T-STORE-B-AA	T-STORE® Tissue Storage and Transportation Medium with Antibiotic (Amphotericin B and Chloramphenicol)	100mL
T-STORE-B-AN	T-STORE® Tissue Storage and Transportation Medium with Antibiotic (Amphotericin B and Nanomycopulitin)	100mL
T-STORE-X-CUS	T-STORE® Tissue Storage and Transportation Medium with custom additives according to customer specification	Available on request

Table 1

NOTE: 'X' in the product code denotes the pack size. Please state the pack size required at the time of ordering. Concentrations of antibiotic: Amphotericin B (5 µg/mL), Chloramphenicol (0.1 mg/mL), Nanomycopulitin (1X).

What type of documentation is supplied for T-Store® before shipping?

The types of documentation will depend on the destination of the product. The types of documentation sent with the product are the Certificate of Analysis (CoA), Safety Data Sheet (SDS), Product information sheet, and standard shipping declaration of conformity depending on customs.

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