

TStore®

Product Overview

T-STORE® (Tissue Store) is a chemically defined and optimised media developed to provide a stable storage and shipping environment for mammalian tissue samples and cells. The product has been designed to maintain the integrity of tissue samples, thereby reducing necrosis and apoptosis.



Key Benefits

Applications

1. Storage and transport of tissue samples prior to analysis
2. Storage of cells following dissociation/isolation or enrichment prior to further analysis

T-STORE® mimics the basic composition of interstitial fluid meaning that the acid-base (pH) balance of tissues is maintained during storage and transportation, allowing tissues to be used successfully for up to 72 hours following removal. Storage in T-STORE® allows tissue samples to retain genetic and histological profiles for up to 72 hours.

While other tissue preservation solutions are 'tissue-specific', T-STORE® can be used with various types of normal and malignant tissues and is ideal for storing and transporting 'fresh' samples for further processing.

Advantages of using TStore®

- 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.
- Can be used at sub-normothermic (non-frozen) and/or normothermic temperatures.
- Stable pH-buffering of pH 7.15 - 8.20 for temperatures between +2°C to +37°C.
- T-STORE® can be used in aerobic or anaerobic conditions.
- Xeno free i.e., free from serum and animal/human proteins.
- Endotoxin levels conform to EU standards (≤ 1.0 EU/mL)
- Solvent free i.e., free from DMSO.
- Aseptically produced and sterility tested.
- Available in a variety of standard bottle sizes, from 1 litre to 50mL.
- Product fully customisable into whatever collection containers are required.

Specification

Specification	Parameter
Country of Origin	UK
Sterility	Pass
Registration	The standard formats of T-Store are registered as a medical device with MHRA. Any versions of T-Store containing antibiotic or other additives are not currently UK CA/CE marked.
Filtration	0.2 µm
Shelf Life	T-STORE® without antibiotics has a shelf life of 18 months from the date of manufacture when stored at +2 - 8°C under dark conditions. T-STORE® when antibiotics are added should be considered to have shelf life of one month from the date of the addition of antibiotic, when stored +2 - 8°C under dark conditions.

Ordering Information

Product Code	Product Description	Pack Size
T-STORE-X	T-STORE® Tissue Storage and Transportation Medium	50mL, 100mL, 125mL, 250mL, 500mL, 1 L
T-STORE-X-AA	T-STORE® Tissue Storage and Transportation Medium with Antibiotic (Amphotericin B and Chloramphenicol). Antibiotic is supplied as a separate tube for addition to the product as required	100mL, 125mL

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). T-Store containing antibiotic or other additives cannot be considered UK CA/CE marked.



Storage

Recommended storage is +2°C to +8°C. Protect T-STORE® from exposure to light.



Packaging & Shipping

Product ships at ambient temperature.

Additional Options

T-STORE® is also available with antibiotic Amphotericin B and Chloramphenicol

Custom sizes available upon request.

Please contact our team for bespoke requirements on sales@lifesciencegroup.co.uk.

Cell Support, Storage and Transportation

T-STORE® provides an ideal fluid composition to retain the acid-base balance and integrity of human cells ex vivo. The unique features of this formulation facilitate mitochondrial metabolism in the generation of adenosine triphosphate (ATP).

T-STORE® is suitable for a myriad of stem cell and peripheral blood cell types without the need for the addition of disruptive compounds and can be used 'cold' (hypothermic), sub-normothermic (+15°C to +25°C) and at normothermic temperatures. This product also has potential for use in cell culture bioreactors. Storage and reconstitution of lyophilised product

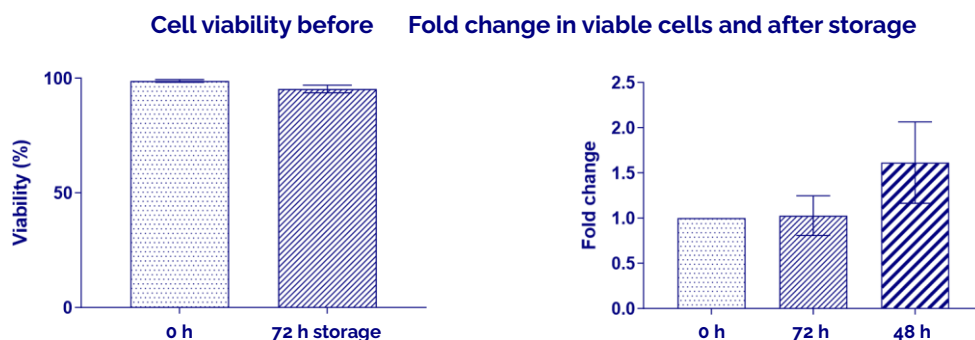
Procurement of Tissue Samples

T-STORE® is supplied to use neat without the need for further dilution. Please see Table 1 for product options.

Following excision, tissue samples should be immediately completely submerged in T-STORE. The volume of T-STORE® required should be determined by the user, as the size of the sample and downstream applications may affect requirements. As a starting point for further optimisation, we recommend complete submersion in T-STORE® using a sterile, leak proof container with no headspace. It is recommended to use an excess volume of T-STORE® to tissue weight/size ratio to ensure successful storage.

Quality Assurance

As part of the quality control process, each batch of T-STORE® undergoes functionality testing before release. The functionality test utilises HEK cells and a specific protocol. Data shown has been collated from fourteen batches and show that cell numbers are maintained with excellent viability and recovery.



The cells were stored for 72 h in T-Store, then they were placed in T-Store (C,c), DMEM/HEPES (B,b), and DMEM complete media (A,a) for 96 h, and then growth and adhesiveness were compared to the top image. Original magnification 100X.

HEK cell morphology is maintained and cells remain viable following 72 h on the bench in T-STORE

