

## SafeCell

### A ready-to-use transport and storage medium

SafeCell is a sterile, chemically defined and optimised media developed to provide a stable storage and shipping environment for both tissues and cells. SafeCell is fully defined, and serum and animal/human protein free. The media is isosmotic, isotonic and isoionic with serum and interstitial fluid and may be used at a variety of temperatures (e.g. 2 °C to 37 °C), creating an homeostatic environment for maintaining isolated cells, tissues and organs over hours or days, as required.

SafeCell utilises a novel, acid-base (pH) buffering system designed to mimic the natural,  $\alpha$ -stat pH mechanism of the imidazole groups in haemoglobin operating in mammals and humans and provides an ideal fluid composition to retain the acid-base balance and integrity of human cells and tissues, thereby avoiding the issues of necrosis and apoptosis in cell and tissue samples post collection.

### Advantages

#### Cell support, storage and transportation

- Cell storage and transportation times of 12 - 120 hours under 'cold' (0 - 4 °C) or ambient temperatures
- Stable pH-buffering of pH 7.20 - 7.45 over 20 - 37 °C
- Ability to 'hold' stem cells during storage and delivery in differentiated format
- Operates under aerobic or anaerobic conditions to accommodate all stem cell types
- Suitable medium for use in cell culture containers currently used for transportation
- Animal and Human serum free
- Endotoxin levels conform to EU standards ( $\leq 0.025$  EU/mL)
- Solvent free e.g. DMSO
- May be used to support all types of animal cells

#### Organs

- Isosmotic and isoionic to serum and interstitial fluid
- Suitable for the maintenance of functionality of organs
- Ideal as an organ flush fluid
- Suitable as organ support medium for the support of organs under normothermic conditions
- May be used to support all types of animal organs

#### Tissues

- May be used to support all types of animal tissue
- Ideal for functional support of fresh biopsied cells and tissues for up to 72 hours
- Does not compromise genetic and histological profiles of cells or tissues

## Applications

<b>Collection stage</b>	
<b>Collection</b>	Biopsies are simply immersed in requisite volume of SafeCell @ 3 - 8 °C.
<b>Transportation</b>	Fresh, FFPE and SF tissues can be maintained 'fresh' in SafeCell over ice @ 0 - 4 °C or room temperature (RT) for 12-72 hours before processing.
<b>Processing</b>	SafeCell allows for an unlimited choice of tissues and techniques – fresh tissues, FFPE and SF tissues.
<b>Analyses</b>	SafeCell allows for an unlimited choice of tissues and therefore analytical options.
<b>Outcomes</b>	SafeCell retains the morphological and molecular structure of tissues including the functional activity.

## Presentation

Product Code	Product Description	Pack Size
SCA-001	SafeCell Ready to use Tissue Transportation medium 6 x 10 mL	6 x 10 mL
SCA-002	SafeCell Ready to use Tissue Transportation medium with antibiotic (0.6 mg Amphotericin B and 12.5 mg chloramphenicol*)	6 x 10 mL
SCA-004	SafeCell Ready to use Tissue Transportation medium	125 mL
SCA-005	SafeCell Ready to use Tissue Transportation medium with antibiotic (0.6 mg Amphotericin B and 12.5 mg chloramphenicol*)	125 mL

*\*0.6 mg Amphotericin B and 12.5 mg chloramphenicol or 4.5 mg nanomycopulitin, please specify*

## Disclaimer

For research purposes only. Not for therapeutic or diagnostic use.

## Support

Life Science Production is a division of Life Science Group Ltd.

Life Science Production is [ISIA Traceability Certified](#)

Life Science Group Ltd is an ISO 9001:2015 Certified company

To learn more, contact us:

Telephone: +44 (0) 1234 889180

Email: [sales@lifesciencegroup.co.uk](mailto:sales@lifesciencegroup.co.uk)

Website: [www.lifescienceproduction.co.uk](http://www.lifescienceproduction.co.uk)

Address: PO Box 1519, Bedford, United Kingdom

