RECOMBUMIN®
CELL THERAPY PROCESSING, CRYOPRESERVATION & FORMULATION

Albumin is a long-established ingredient used in cell therapy applications. In recent years, however, the source and quality of albumin has proven important for both performance and regulatory purposes. A biomedix® recombinant human albumin products are used in a range of cell therapy media and products offering increased viability, consistency and security.

RECOMBUMIN®, A VERSATILE EXCIPIENT FOR A RANGE OF APPLICATIONS AND CELL TYPES

- Transportation and complexation with metals or other beneficial molecular entities, creating an optimal micro-environment for sustained cell viability.
- Acting as a rich nutrient source ensuring optimal conditions, particularly during cell proliferation.
- Functioning as a pH buffer to prevent unwanted effects during differentiation.
- Maintaining cell viabilities during cryopreservation - driven by the high purity of our recombinant albumin.
- Acting as a scavenger of toxins and other reactive oxygen species.
- Albumin protects cells against chemical stress all the way from culture to patient.
- Providing an insulation effect in media due to its propensity to distribute evenly throughout solutions.

INCREASE POST-THAW VIABILITY AND PRODUCT SHELF LIFE

- Albumedix partner (Xcella and University Autonoma de Barcelona) compared the use of human serum albumin (HSA) and Albumedix albumin product in the cryopreservation of human mesenchymal stem cells (MSC®)
- Albumedix albumin product maintained viability of the MSC® after thawing significantly better compared to Human Serum Albumin.

IMPROVING iPSC COLONY COUNTS POST CRYOPRESERVATION

- Albumedix partner, Centre for Genomic Regulation (CRG), evaluated Albumedix product (Recombumin® Elite) and its effect on iPSC health post cryopreservation in different media conditions.
- Recombumin Elite consistently showed improved colony formation when added to the cryopreservation solution.
- No change to the pluripotency of the cells were observed.

RECOMBUMIN® SUPPORTS CELL VIABILITY AFTER ISOLATION

- Undisclosed customer study conducted to test safety and yield of active cells.
- Customer tested Albumedix product, Recombumin® Elite, against HSA and no HSA in the cell isolation stage.
- The study is made on isolating T-cells.

Read more about the properties and benefits in this whitepaper:

[Download link]

Listen to Albumedix digital cryopreservation presentation:

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