

TECHNOLOGY FOR LOW-TEMPERATURE LONG-TERM STORAGE OF HUMAN DONOR BLOOD ERYTHROCYTES



Low-temperature bank of human blood cells

Areas of Application

The technology provides a long-term (for decades) storage of blood cells to be used in clinical practice

Specification

The technology enables storing human donor blood cell (erythrocytes) at a low temperature (-150 ± -196 °C) with Propanediosacharol as preservation agent in disposable polymer cryocontainers

Stage of Development. Suggestion for Commercialization

IRL5, TRL5

Preparation and transfer of technology regulations, production and delivery of special equipment to implement freeze-thawing stages, and staff training, upon request

Advantages

As compared with the known methods, this technology has significant advantages, in particular, it facilitates the technological stages of cell preparation for cryopreservation and clinical application, it is notable for a high level and stability of frozen cell preservation and their clinical effectiveness, is much cheaper and accessible for practical use

IPR Protection

IPR1, IPR3

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