

ABSTRACT

DEVICES, METHODS, AND COMPOSITIONS USEFUL IN CRYO-PRESERVATION, -STORAGE, -TRANSPORT, AND APPLICATION OF THERAPEUTIC MAMMALIAN CELLS

The disclosed compositions, methods, and devices are useful in freezing, storing, and administering therapeutic eukaryotic cells to a patient in need thereof. In many embodiments, the disclosed therapeutic cells are mammalian cells derived from human intervertebral disc tissue. The disclosed compositions, methods, and devices are able to maintain high viability and sterility of the therapeutic cells, and allow the cells to be administered to a patient directly from the freezing container without manipulation of the cells or transferring to a second container.

FIG. 4