Abstract

METHODS FOR TRANSDUCTION AND CELL PROCESSING

Provided are methods, systems, and kits for cell processing, e.g., for therapeutic use, such as for adoptive cell therapy. The provided methods include transduction methods, in which cells and virus are incubated under conditions that result in transduction of the cells with a viral vector. The incubation in some embodiments is carried out in an internal cavity of a generally rigid centrifugal chamber, such as a cylindrical chamber made of hard plastic, the cavity of which may have a variable volume. The methods include other processing steps, including those carried out in such a chamber, including washing, selection, isolation, culture, and formulation. In particular, the disclosure relates to method providing advantages over available processing methods, such as available methods for large-scale processing. Such advantages include, for example, reduced cost, streamlining, increased efficacy, increased safety, and increased reproducibility among different subjects and conditions.

Fig. 1A