

Abstract

The invention relates to a cell culture bottle for adherent cells (e.g. human mesenchymal stem cells), comprising: a vessel; an internal cylinder, which has an internal Archimedes screw; an internal central tube, through which liquid can flow; and at least one wall arranged around the central tube. This arrangement provides an enlarged inner surface for the growth of the cells and for the reliable mixing of the fluid. The cell culture bottle is formed as a single piece and can be simply and economically produced as a disposable device by means of additive manufacturing.

Fig 1 for Publication