Abstract

Method for Large-scale Production of Lentivirus by Using GMP-level Serum-free Suspension Cells

Provided is a method for large-scale production of lentivirus by using GMP-level serum-free suspension cells. Said method comprises the following steps: (a) providing a seed solution of packaging cells; (b) inoculating the seed solution in a first culture solution; (c) carrying out subculture of the packaging cells; (d) starting a liquid change operation when a liquid change trigger condition is met; (e) repeating steps (c) and (d) 1, 2 or 3 times; (f) starting a transfection operation when a transfection trigger condition is met; (g) optionally performing liquid change after transfection; (h) cultivating the transfected packaging cells; (i) starting harvesting and liquid change operations when a liquid change trigger condition is met; (j) repeating steps (h) and (i) 1, 2 or 3 times; (k) combining each of the recovered liquids; and (l) performing a purifying treatment. The culture solution used in each step is a serum-free cell culture solution.