

ABSTRACT**Automated device and automated process for cell culture**

5 An automated apparatus of cell culture, comprising tanks of culture medium, of growth
factors and of cells to be cultured, an incubator having a thermostated enclosure which
houses a cell culture vessel, and control computer system , characterized in that it
comprises supporting and agitation device of the culture vessel which is accommodated
in the enclosure, and in that the culture vessel is formed by a bag comprising at least one
10 inlet port connected to said tanks and one outlet port connected to harvesting and
storage means of the cells after culture, these harvesting and storage means and said
tanks being located outside the enclosure and being connected to the cell expansion bag
ports by conduits which together with the cell expansion bag form a preassembled
module and which pass through a wall of the enclosure, so as to allow to feed the cell
15 expansion bag with culture medium, with growth factors and with cells to be cultured, and
to harvest the contents of the cell expansion bag in the storage means while maintaining
the enclosure closed.