

Abstract

CELL CULTURE SYSTEM AND CELL CULTURE METHOD

The cell culture system has a culture tank that houses a liquid medium for culturing cells, and a cell separation device. The cell separation device has a fluid force separation device and a liquid feed unit. The fluid force separation device has a curved flow path having a rectangular cross-section and separates relatively large cells from cells contained in the liquid medium using a vortex flow generated by flow through the curved flow path. The liquid feed unit circulates the liquid medium through the fluid force separation device in a controlled pressure environment so as to suppress any decrease in cell viability caused by pressure fluctuations in the liquid medium during circulation through the fluid force separation device.

FIG. 1