

QUANTITATIVE, STERILE AND DISPOSABLE AUTOMATIC CELL SAMPLING DEVICE AND METHOD

ABSTRACT

The present disclosure relates to a quantitative, sterile and disposable automatic cell sampling device and method. The automatic cell sampling device includes a sampling container, a pump, a sterile filter, a control valve, a first conduit, and a second conduit. A receiving cavity is formed in an interior of the sampling container, and a first interface and a second interface are formed in a top portion of the sampling container for achieving a maximum sampling capacity of the sampling container. One end of the first conduit is connected to the first interface, and the other end thereof is connected to a cell based drug production device through the pump. The control valve is installed in a middle of the first conduit. The second conduit is connected between the second interface and the sterile filter, and is configured for discharging and supplementing sterile air in the sampling container. The sterile filter is used to filter the air into sterile air. The automatic cell sampling device has a small volume and realizes a high space utilization of the sampling container and a sterile and convenient sampling, greatly reducing the probability of cell contamination.

FIG. 1