

ABSTRACT

A system (10) for expression, purification, and detection and screening of biological drugs comprises: one or more incubators (1), which are used for culturing biological samples to provide basic samples for detection and screening of biological drugs; a liquid operation system (3), which is used for implementing predetermined operations on the biological samples cultured in the incubator(s) (1); a sample detection platform (5), which is used for detecting the biological samples so as to facilitate screening; a transfer platform, which is used for transferring the biological samples between the incubator(s) (1) and the liquid operation system (3) and/or between the liquid operation system (3) and the sample detection platform (5); and an automatic control system (6), which is configured to control the operation of at least one of the incubator(s) (1), the liquid operation system (3), the sample detection platform (5) and the transfer platform. The system (10) for expression, purification, and detection and screening of biological drugs not only increases by order of magnitude the throughput of expression, purification, and detection and screening of biological drugs while reducing by order of magnitude the number of operators, but also greatly increases the stability, uniformity and reproducibility of a process flow by means of standardized operations.

Fig. 1