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INNOVESSEL Closed Culture System

INNOVESSEL Closed Culture System

Make cell culture safe, convenient, automated and efficient

Features

- Can be used for static culture with ordinary incubators.
- The pipes can be opened or closed as needed by switching on or off the clamp valve.
- Automated culture process (removing supernatant, replenishing fluids, harvesting), eliminating the risk of contamination caused by manual operations.
- Closed system, with compatible liquid controllers, meets GMP production requirements.
- Harvest flow rates can be adjusted according to different processes.
- Convenient tubing replacement reduces the risk of cross-contamination using self-sealing Luer tapers.

1000mL Closed culture system

2000mL Closed culture system

INNOVESSEL Closed Culture System

The maximum culture capacity of INNOVESSEL-1000 and INNOVESSEL-2000 reaches 1L and 2L respectively. The vessels are made of bio-compatible materials and with patented top-and-bottom permeable membrane technology to optimize the permeability. Based on this design, the vessel height and bottom area are enlarged to enhance overall permeability efficiency, providing a more suitable environment for cell growth.

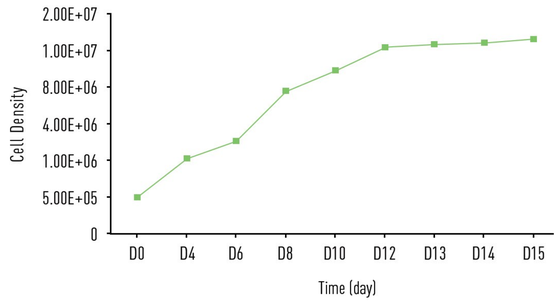
They have been proven to be applicable for the expansion culture of various immune cells, including but not limited to T Cell、CAR-T、TCR-T、TIL、NK、CAR-NK、CIK、K562、Jurkat、Raji.

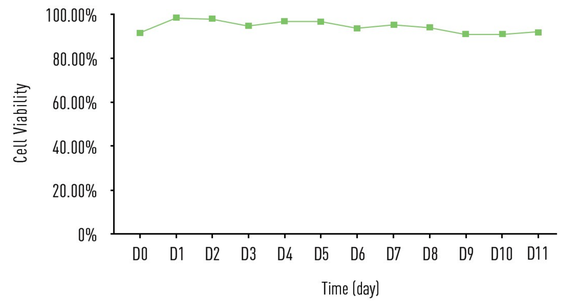
InnoVessel-1000

InnoVessel-2000

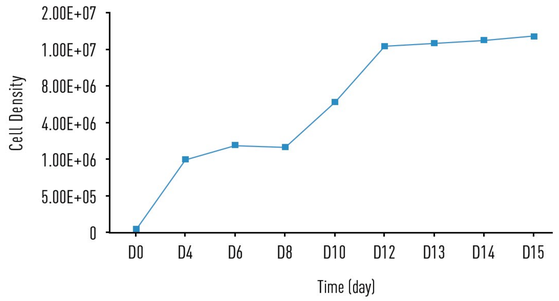
T / CD19 CAR-Tcell expansion culture in INNOVESSEL closed culture system

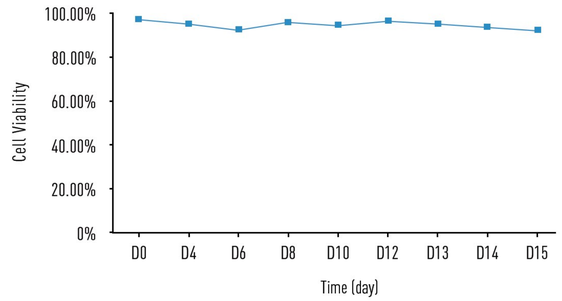
T cell





CAR-T cell





In INNOVESSEL-1000 & INNOVESSEL-2000, the viable CAR-T cells density exceeds 1.0E+07/mL on the 8th day after transfection, with a viability of over 95%.

Model	Maximum effective volume（mL）	Culture area（cm^2）	Initial cell density recommended（cell/mL）	Culture volume recommended（mL）	Expected number of cells（cell）
InnoVessel-1000	1200	260	~5 E+05	150~1000	1~1.5 E+10
InnoVessel-2000	2250	260	~5 E+05	150~2000	2~3 E+10