







INNOVESSEL Closed Culture System

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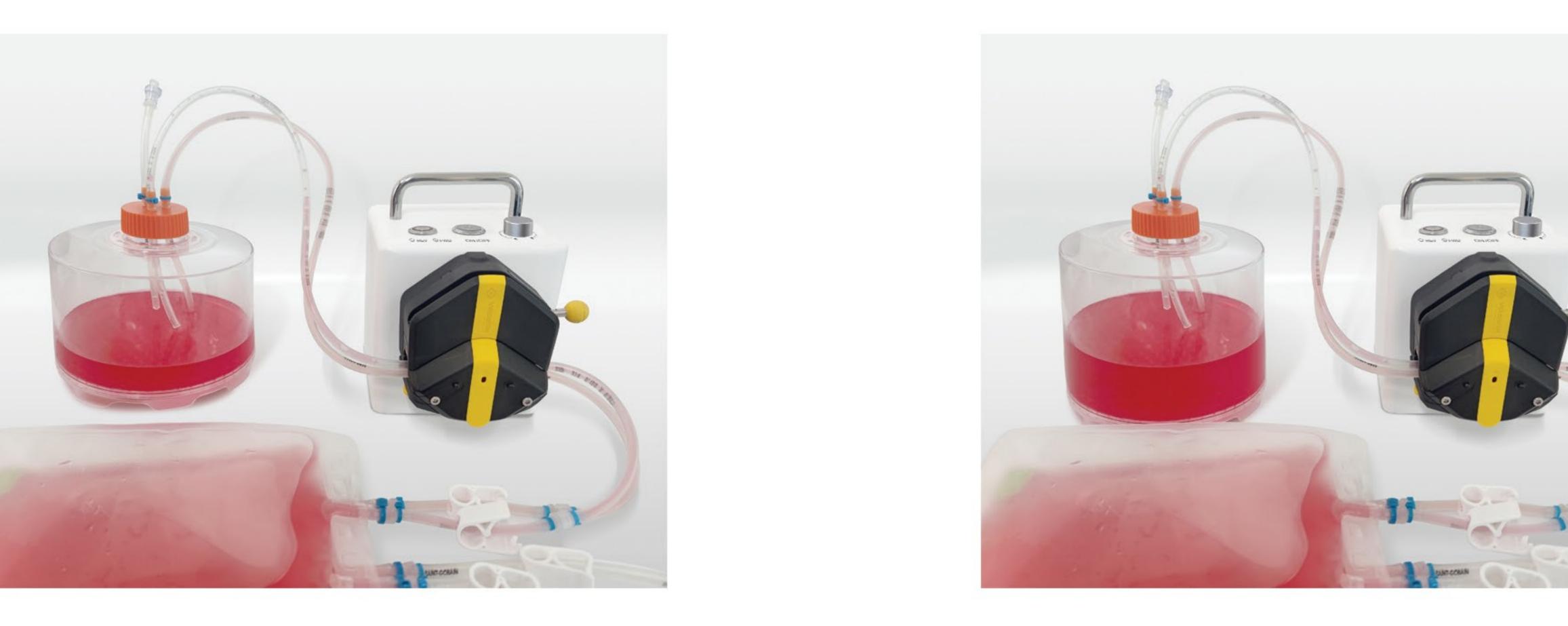
INNOVESSEL Closed Culture System



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

2000mL 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

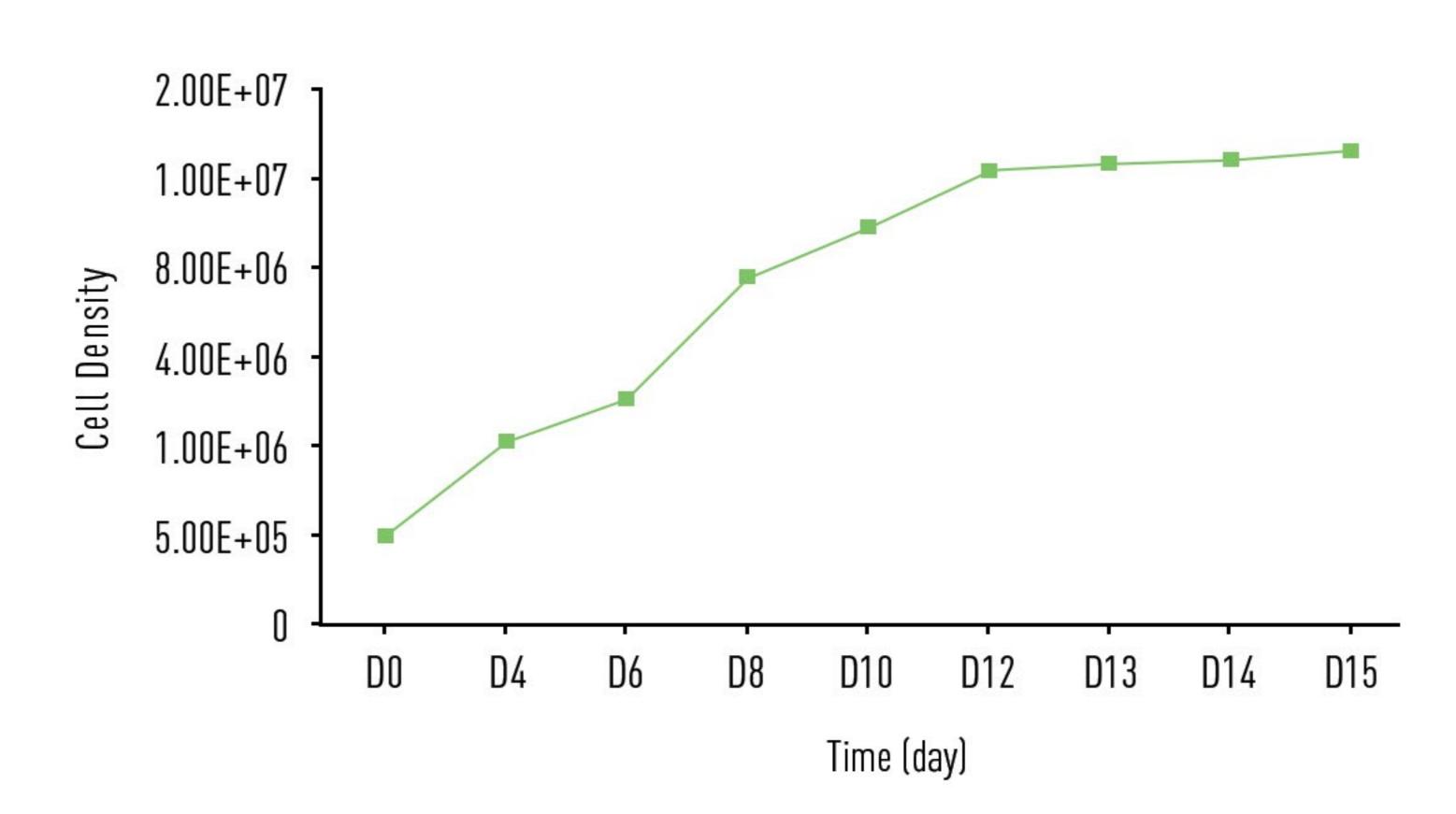


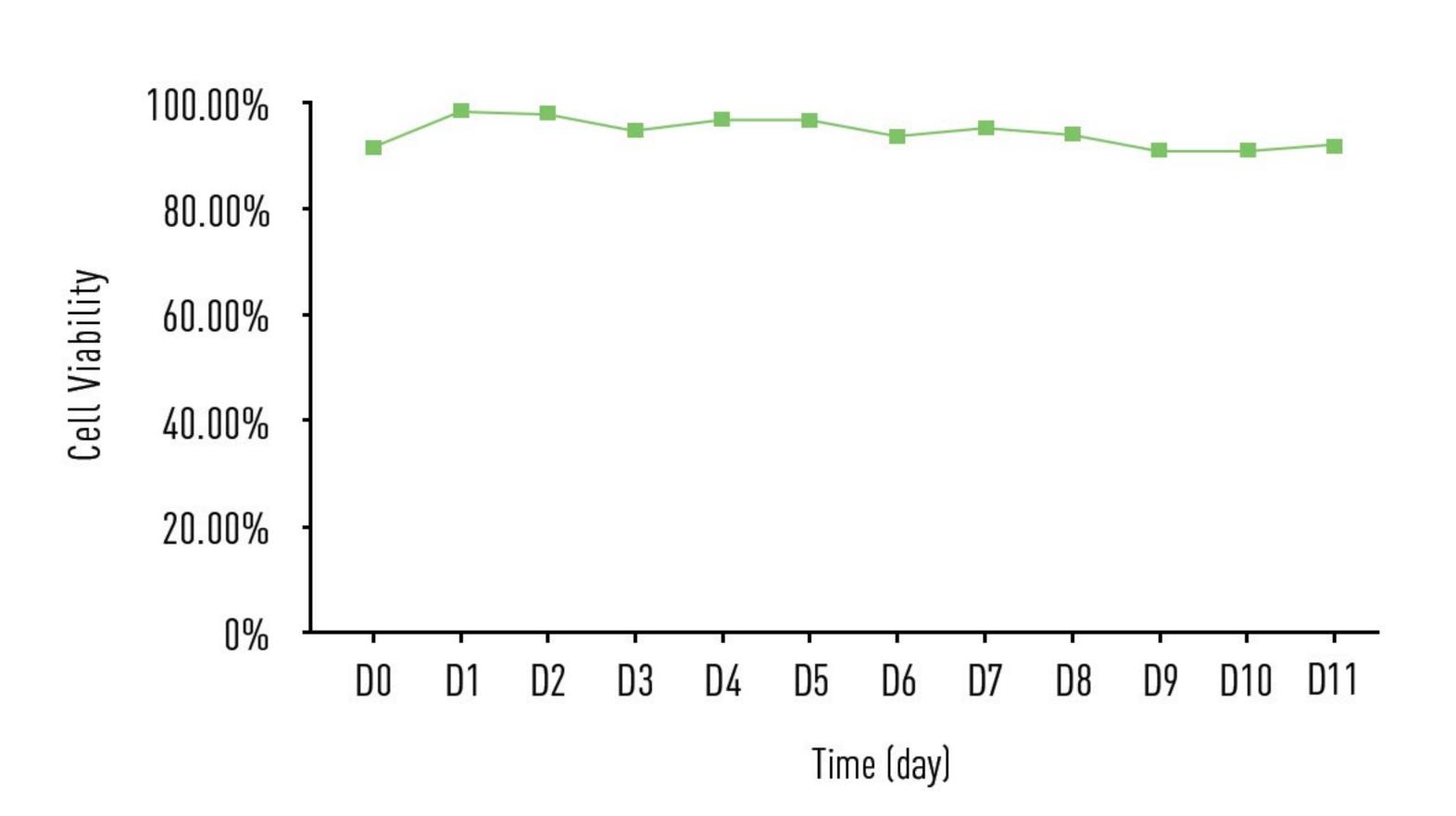
InnoVessel-2000

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

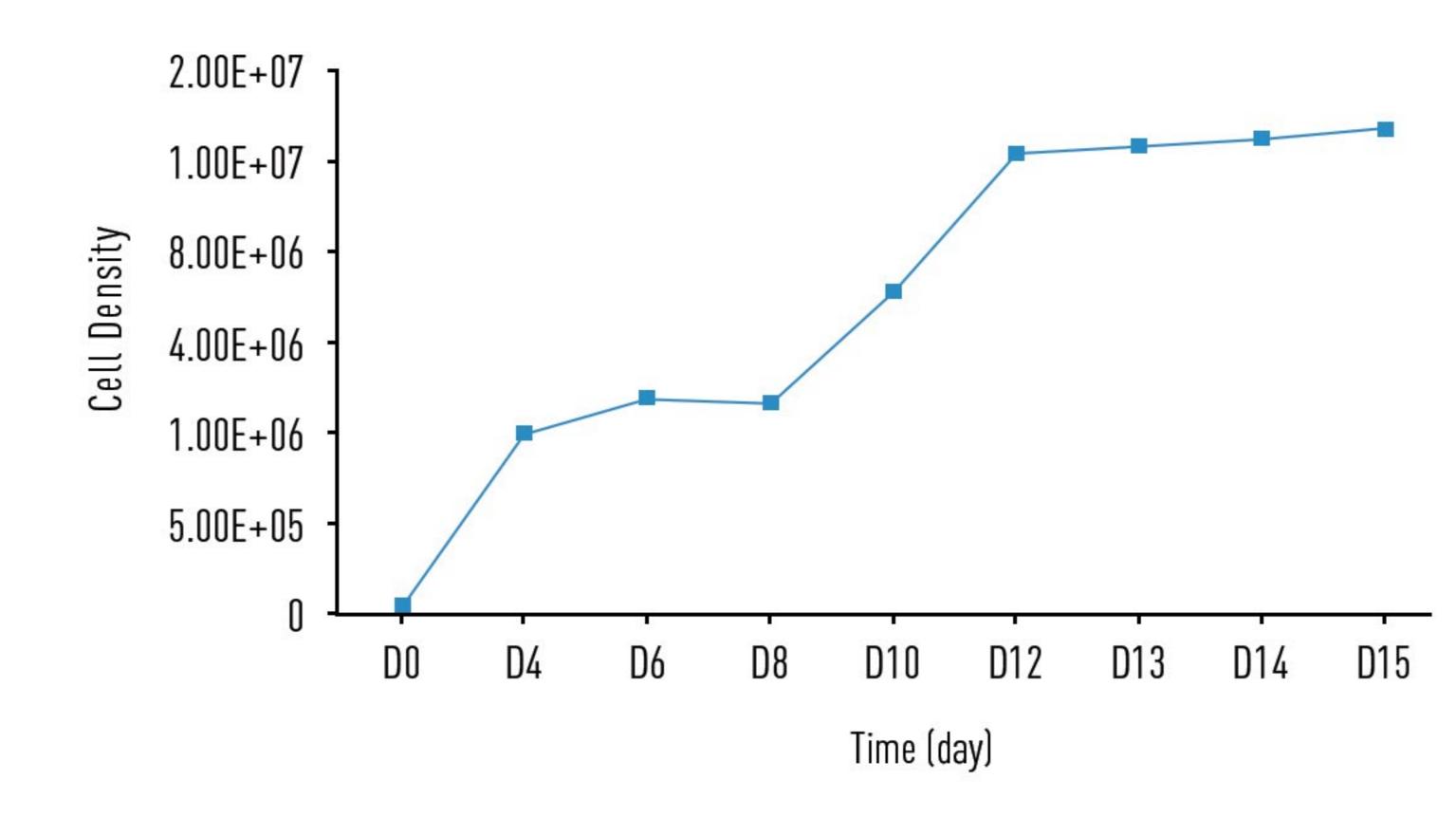


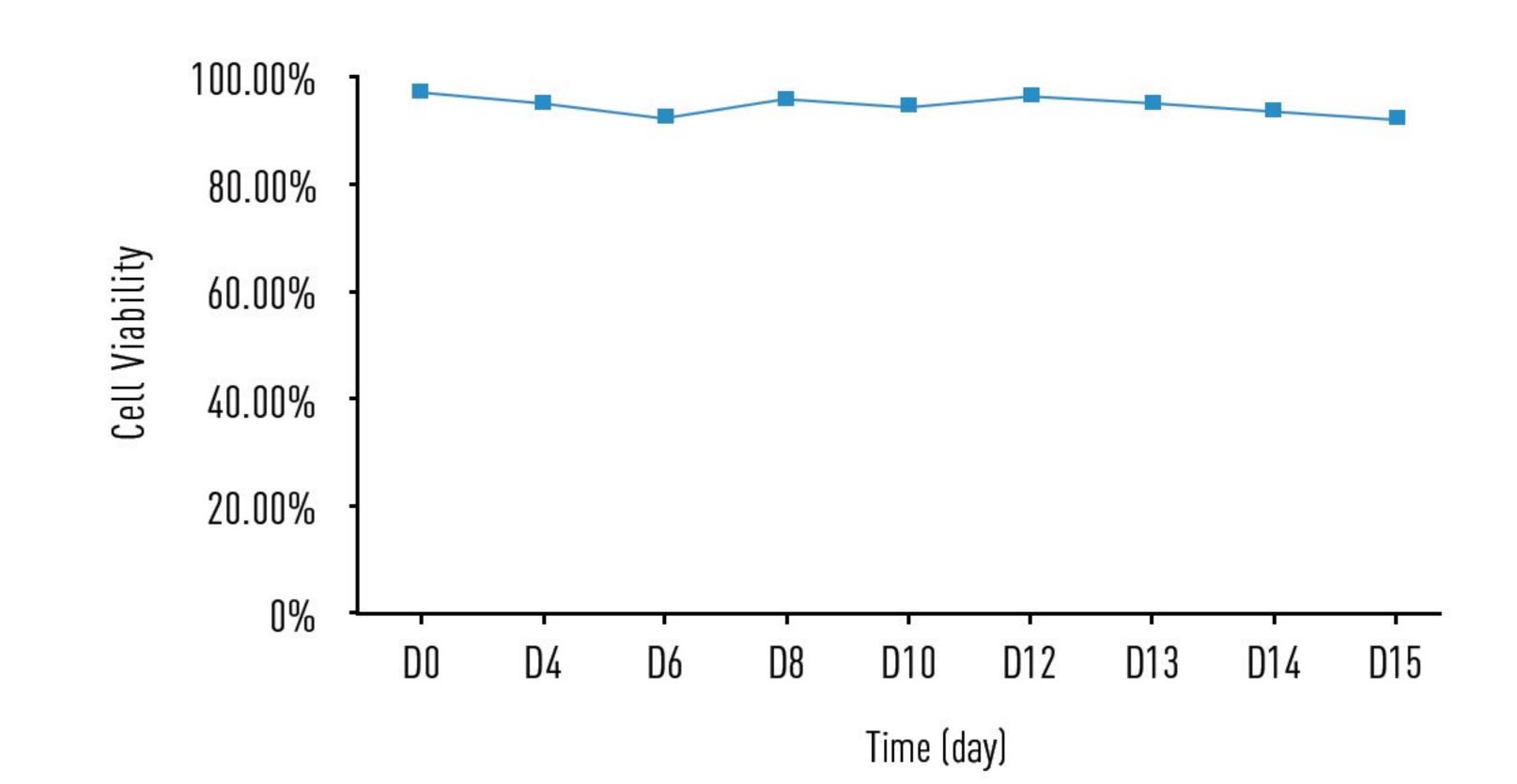
T cell





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 (cm²)	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