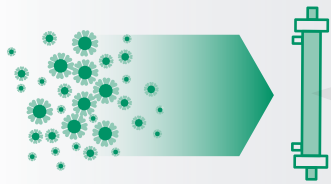


Where T cells thrive.

The Quantum Flex Cell Expansion System is a robust environment that can advance your T-cell cultures from preclinical development to commercialization.* It's designed to meet your needs for automation, scalability, and process development, all while facilitating GMP compliance.

Seeding



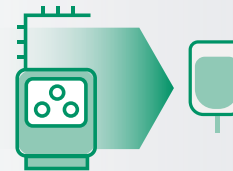
Seed as few as 2 million cells directly into the small bioreactor **without the need for manual preculture**. This can reduce costs, labor, and manufacturing time.

Culturing



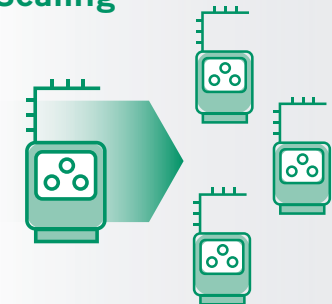
Create an ideal environment for your T cells. Hollow-fiber perfusion technology holds the cells and reagents in the fibers while nutrients and gas perfuse through the fiber walls.

Harvesting



Harvest >2 billion cells from the small bioreactor or >10 billion from the standard bioreactor in as little as 5 minutes. Suspension in 1 L or less of medium simplifies downstream processing.

Scaling



Scale your process to the larger bioreactor, or scale out to multiple connected systems for late-phase production on the same platform.

Performance varies by user and is dependent on customer processes and materials.

Capture the benefits of the Quantum Flex Cell Expansion System. Contact a Terumo Blood and Cell Technologies representative today at Flex@terumobct.com.



An internal study found that T cells harvested had greater than 90% viability, low exhaustion level markers, and a high percentage of memory and stem cell memory-like T cells.*

In an external study, patient CAR T cells expanded on the Quantum platform had shorter doubling times, a better controlled cell culture environment, more robust cytolytic capacity, and lower levels of exhaustion markers as compared to manual culture.*†



TERUMO BLOOD AND CELL TECHNOLOGIES

Terumo Blood and Cell Technologies is a medical technology company. Our products, software and services enable customers to collect and prepare blood and cells to help treat challenging diseases and conditions. Our employees around the world believe in the potential of blood and cells to do even more for patients than they do today. [TERUMOBCT.COM](https://www.terumobct.com)

Terumo BCT, Inc.
Lakewood, CO, USA
+1.303.231.4357

Terumo BCT Europe N.V.
Zaventem, Belgium
+32.2.715.0590

Terumo BCT Asia Pte. Ltd.
Singapore
+65.6715.3778

Terumo BCT Latin America S.A.
Buenos Aires, Argentina
+54.11.5530.5200

Terumo BCT Japan, Inc.
Tokyo, Japan
+81.3.6743.7890



*Data on file.
†As compared to manual cell culture, data on file.