ExCell

Supporting IND | FDA DMF filing | GMP-Grade



OptiVitro®

T Cell Serum-free Medium

Focus on T Cell culture

Suzhou ExCell Biotechnology Co., Ltd.

ExCell

Proudct Overview

OptiVitro® T Cell Serum-free Medium serues is a serum-free and xeno-free medium designed for the *in vitro* expansion of human T lymphocytes.

Product Features

1. Serum-free, xeno-free, animal-derived component-free;
2. Work without any serum or serum replacement;
3. Manufactured in compliance with GMP standards, convenient access to Drug Master File (DMF No.037572)
4. Support robust T Cell expansion with high viability for 14 days of culture;
5. Suitable multiple types of T cells(CAR-T, TCR-T, γδT /CAR-γδT, TIL, etc.);
6. Provided in bottle or bag format;
7. Suitable for various activation methods;



A OptiVitro® T Cell Serum-free Medium

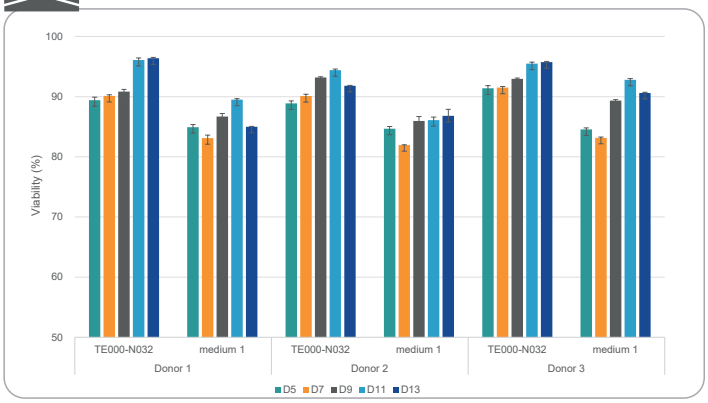


Figure 1. The viability of T Cells cultured in OptiVitro® T Cell Serum-free Medium is better than medium 1

T Cell viability was determined every 2-3 days throughout the culture in OptiVitro® T cell serum-free Medium and medium1. Data represents the mean of three replicates for each independent tests.

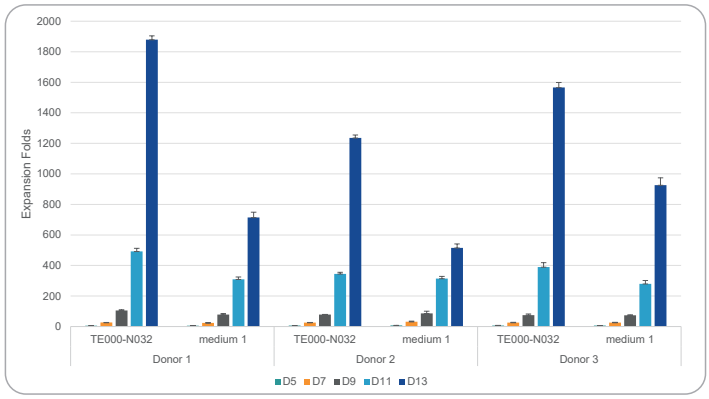


Figure 2. The expansion folds of T Cells cultured in OptiVitro® T Cell Serum-free Medium is better than medium 1

T Cell density was tested every 2-3 days throughout the culture in OptiVitro® T cell serum-free Medium and medium 1, and the expansion folds were calculated. Data represents the mean of three replicates for each independent tests.

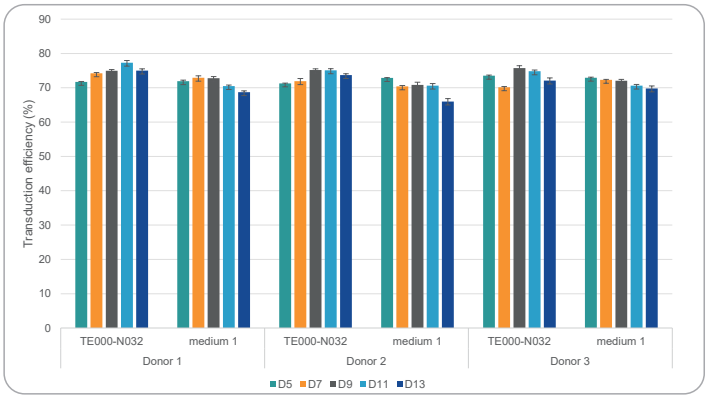


Figure 3. The distribution of T Cell populations cultured in OptiVitro® T Cell Serum-free Medium is similar to medium 1

T Cell phenotypic characterization was performed in OptiVitro® T cell serum-free Medium and medium 1 on D13. Data represents the mean of three replicates for each independent tests.

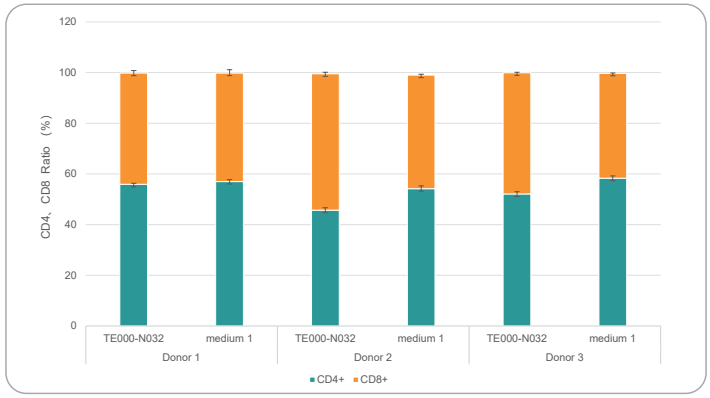


Figure 4. T-cell transduction in healthy people cultured with OptiVitro® T Cell Serum-free Medium and medium 1

The transduction efficiency of D5, D7, D9 and D13 during cell culture was tested. Compared with medium 1, OptiVitro® T cell serum-free Medium had higher transduction efficiency.

Note: Both medium in this test were supplemented with the same amount of IL-2, while immune cell serum replacement was added to medium1 according to manufacture's protocol.

OptiVitro® T Cell Serum-free Medium TE07

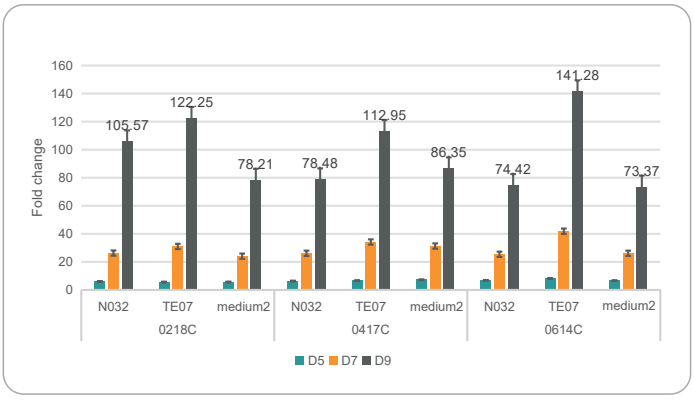


Figure 1. OptiVitro TE07 can support high cell expansion multiples.
Starting from cryopreserved PBMCs without sorting, continuous expansion in culture flasks, the TE07 medium achieves an expansion multiple greater than 100 times in 9 days, which is higher than medium 2.

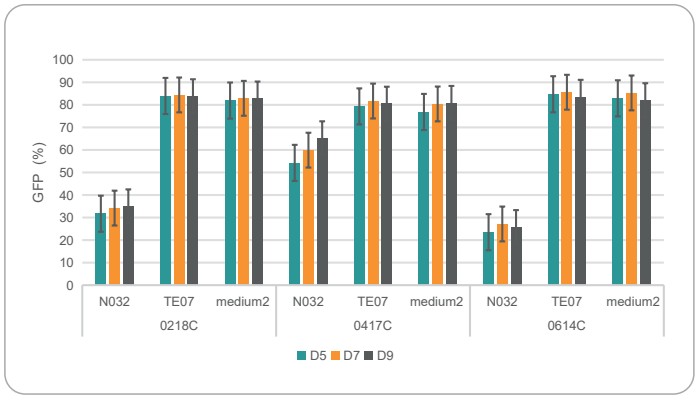


Figure 2. OptiVitro TE07 can support high transduction efficiency.
Under the conditions of starting with cryopreserved PBMCs, no sorting, and continuous expansion in culture flasks, the transduction efficiency of TE07 is similar to that of medium 2.

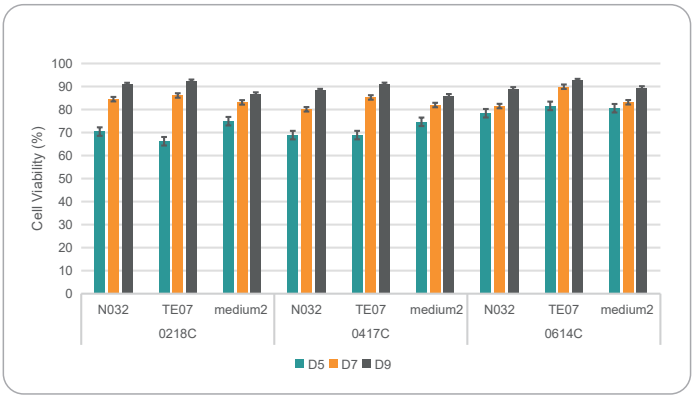


Figure 3. OptiVitro TE07 can support high cell viability.
Under the conditions of starting with cryopreserved PBMCs, no sorting, and continuous expansion in culture flasks, the TE07 cell viability is similar to that of medium 2, maintained at around 90%.

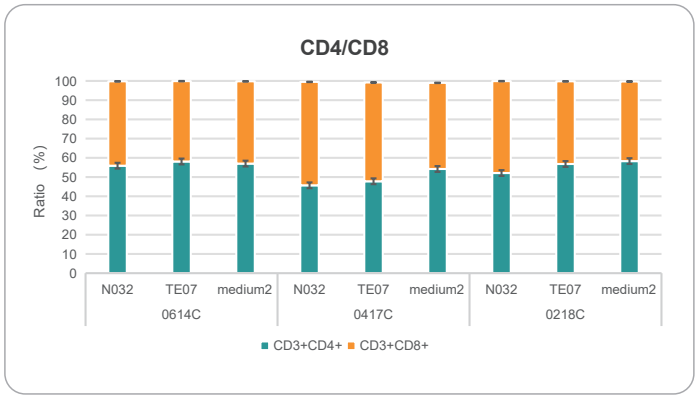


Figure 4. OptiVitro® TE07 can support youthful rejuvenation ratio.
Under the conditions of starting with cryopreserved PBMCs, no sorting, and continuous expansion in culture flasks, the youthful phenotype of TE07 cells is similar to that of medium2.

Note: Both medium in this test were supplemented with the same amount of IL-2.

Product Information

OptiVitro® T-SFM series facilicate different kinds of application scenarios, and support seamless transition from research to clinical scale. Customized packing sizes and formulations are also available.

Product Name	Cat No.	Size
OptiVitro® T Cell Serum-free Medium	TE000-N022	1 L, bottle
OptiVitro® T Cell Serum-free Medium (phenol red-free)	TE000-N032	1 L, bottle
OptiVitro® T Cell Serum-free Medium (phenol red-free)	TE000-N072	2 L, bag
OptiVitro® T Cell Serum-free Medium (phenol red-free)	TE000-N074	5 L, bag
OptiVitro® T Cell Serum-free Medium TE07(phenol red-free)	TE000-N082	1 L, bottle

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