



GMP-Grade



OptiVibro[®]

NK Cell Expansion Serum-free Kit Series

Focus on NK Cell culture

Product Overview

OptiVibro® NK Cell Expansion Serum-free Kit Series are designed for the *in vitro* expansion of human natural killer (NK) cells, it is serum-free, xeno-free, and support high yields of functional human NK cells from peripheral blood mononuclear cells (PBMCs) and cord blood mononuclear cells (CB-MNCs).

- ✓ High viability
- ✓ High expansion
- ✓ High purity
- ✓ High cytotoxicity

- 1、Serum-free, xeno-free, animal-original-free Medium;
- 2、Selection of full factor kit, amplification kit and basic medium as required;
- 3、Support NK cell steady proliferation, high viability, high expansion, high purity, high killing function;
- 4、Suitable for different NK cell culture systems with or without the use of feeder cells;
- 5、Support a variety of NK cell sources (peripheral blood, cord blood, NK-92 cell line, iPSC, etc.) culture;
- 6、Completely independent research and development, stable supply, GMP level, DMF filed (File No.038570), support clinical application and commercialization (Multiple IND application cases approved) ;

NE000-N012

NK Cell Expansion Serum-free Medium P01



Basal Medium

NE000-N022

NK Cell Expansion Serum-free Kit P01



Full-cytokines Kit

All-in-one, fully-cytokines Kit, no need to try feeder cells;

NE000-N032

NK Cell Expansion Serum-free Basic Kit P01



Replenishment

Work with feeder or feeder-free culture system;

Product Data

1 Human NK cells from PBMCs cultured in NK Cell Expansion Serum-free Kit P01

Materials: T25 Flasks, T75 Flasks, 2L Bags

PBMCs: Seeding density at 1.3E6 cells/mL, equal to 6.5E6 cells in total.

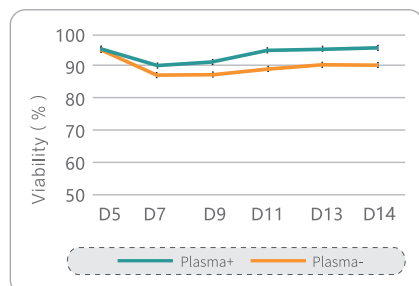


Figure 1. High viability of NK cells.

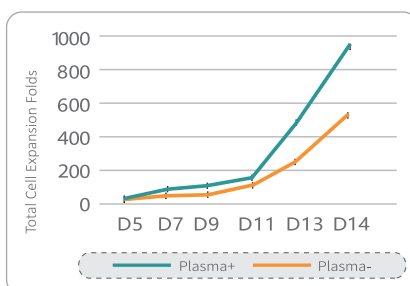


Figure 2. High yields of total cells.

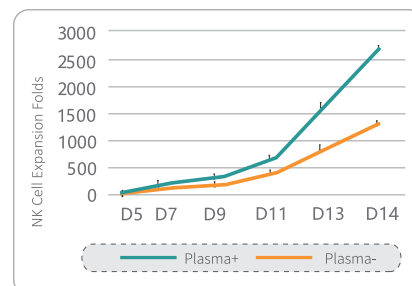


Figure 3. High yields of NK cells.

Plasma+ culture system, medium supplemented with heat-inactivated autologous plasma, obtain a density at 4.62E6 cells/mL, equal to 5.86E9 cells in total on Day 14, the culture volume is about 1.3L.

Plasma- culture system, obtain a density at 3.86E6 cells/mL, equal to 3.00E9 cells in total on Day 14, the culture volume is about 0.8L.

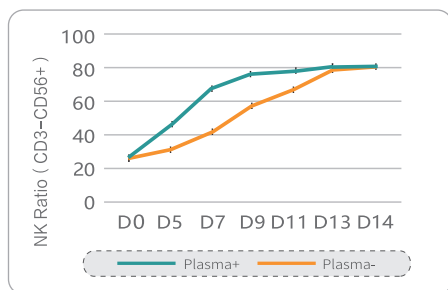


Figure 4. High purity of NK cells.

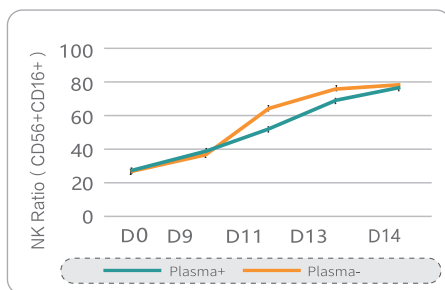


Figure 5. High purity of CD56+/CD16+ NK cells.

Work well without the plasma.

2 Human NK cells from CB-MNCs cultured in NK Cell Expansion Serum-free Kit P01

Materials: T25 Flasks, T75 Flasks, 2L Bags

CB-MNCs: Seeding density at 2.5E6 cells/mL, equal to 1.25E7 cells in total.

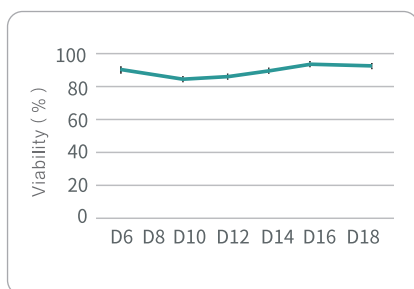


Figure 6. High viability of NK cells.

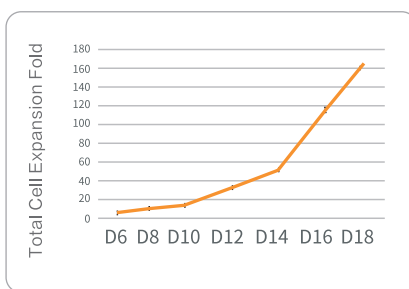


Figure 7. High yields of total cells.

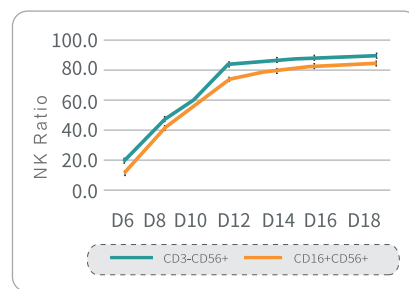


Figure 8. High purity of NK cells.

3 Human NK cells cultured demonstrate robust cytotoxicity.

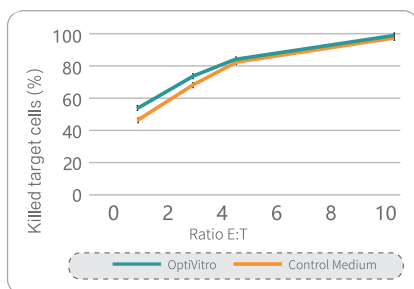


Figure 9. Cytolytic function test.

Human NK cells from PBMCs, can kill target K562 cells in a dose-dependent manner.



Product Information

| Product Name | Cat No. | Size |
|--|------------|-----------------|
| OptiViro® NK Cell Expansion Serum-free Medium P01 | NE000-N012 | 1000 mL |
| | NE000-N011 | 500 mL |
| OptiViro® NK Cell Expansion Serum-free Kit P01 | NE000-N022 | 1 kit (1000 mL) |
| | NE000-N021 | 1 kit (500 mL) |
| OptiViro® NK Cell Expansion Serum-free Basic Kit P01 | NE000-N032 | 1 kit (1000 mL) |
| | NE000-N031 | 1 kit (500 mL) |
| OptiViro® NK Cell Expansion Serum-free Medium NE01 (phenol red-free) | NE000-N042 | 1000 mL |
| | NE000-N041 | 500 mL |



Your Cell, Our Culture

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