中科睿极
REGEN-αGEEK


# DASEA® Ultramedia®
# NK cell induction and expansion culture kit

**US FDA CDER DMF No.: 038393**
**US FDA CBER DMF No.: 29527**
**Acute Systemic Toxicity Test**

## INTRODUCTION

DASEA® Uitramedia® NK cell induction and expansion culture kit is a serum-free culture medium developed by REGEN-αGEEK, that contains no heterologous components and has a clear composition. It is suitable for stimulating activation and continuous expansion of NK cells in Peripheral Blood Mononuclear Cells (PBMCs) isolated from human peripheral blood.

This kit uses a pure factor method and does not contain feeder cells, avoiding ethical issues and residual oncogenic risks associated with feeder cells. The components of this product are clear and quality-controlled, and its production follows the ISO9001 quality system and GMP guidelines.

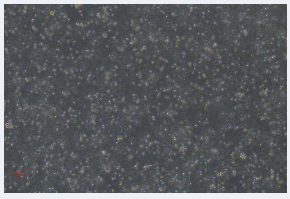
* For research use only

## ADVANTAGES

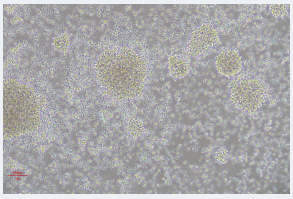
- High proliferation rate
- Pure factor method
- The median of cell positivity rate is greater than 70% (> 70%)
- No heterologous Components
- Easy to operate
- GMP manufacturing (GMP)

## MORPHOLOGY

DAY 0



DAY 14

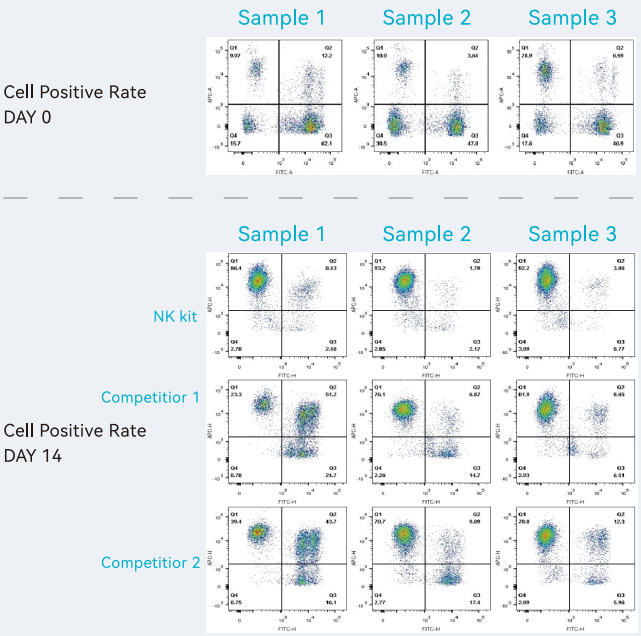


During the culture process, the number of cell clusters increased, and cell morphology is uniform and the culture appears transparent and bright.

## PRODUCT COMPOSITION

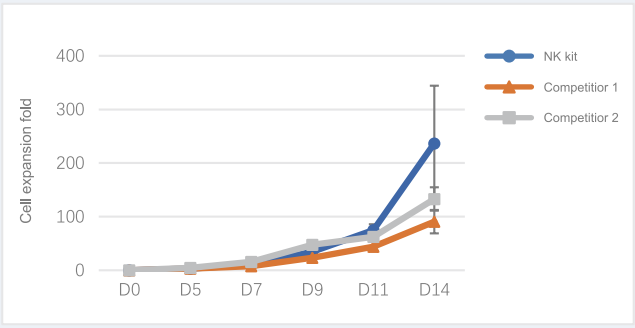
| Product Number | Description | Package | Shelf Life | Storage Conditions |
|---|---|---|---|---|
| RGL0011 | NK cell serum-free medium | 1L | 12 months | Protect from light / 2℃~8℃ |
| | NK factor A | 50 μL | | -25℃ ~ -10℃ |
| | NK factor B | 1 unit | | -25℃ ~ -10℃ |

## PERFORMANCE DATA




Note: X-Axis: CD3-FITC, Y-Axis: CD56-APC.

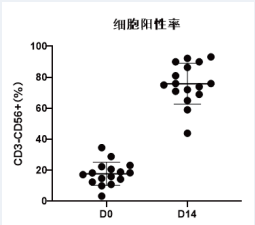
### Cell Expansion Fold




Compared with competitors, the NK cell induction and expansion culture kit can amplify NK cells from PBMCs more efficienntly.
In 1L cell culture system, the cell expansion fold was 150-240 times, and the number of harvested cells was $20x10^8$~$36x10^8$.

Note: The actual number of harvested cells is closely related to the quality of cells themselves.

### Cell Positive Rate




The positive rate of samples in the figure is the summary of test data, and the median positive rate of cells is more than 70%.

### Cytotoxicity Rate


The cytotoxic efficiency of NK against K562 at Day 14 under different effect target ratios.

Cytotoxicity kit: CFSE/7-AAD