

# ExCell Bio

## **OptiVibro<sup>®</sup> NK Cell Serum-free Medium NE01 (phenol red-free)**

For Research and Manufacturing Use

Not Intended for Diagnostic and Therapeutic Use

### **User Manual**

|                |             |
|----------------|-------------|
| Catalog Number | NE000-N042  |
| Catalog Number | NE000-N041  |
| Catalog Number | NE000-N041S |



## | PRODUCT DESCRIPTION

OptiVibro® NK Cell Serum-Free Medium NE01 (phenol red-free) is a serum-free, xeno -free, and cytokine-free medium specifically designed for the maintenance and expansion of natural killer (NK) cells. This medium includes OptiVibro® NK Cell Serum-free Basal Medium NE01 (phenol red-free) and OptiVibro® Immune Cell Serum-free Medium Supplement UE01. Compared to traditional serum-containing media, OptiVibro® NK Cell Serum-Free Medium NE01 reduces the risk of xeno-infectious agents, ensures batch-to-batch consistency, and prevents over-activation and exhaustion of NK cells due to undefined serum components, making it suitable for clinical and large-scale applications.

## | SPECIFICATION, STORAGE AND TRANSPORTATION REQUIREMENT

| Product Name   | Cat.#             | Specification      | Storage                         | Transportation               | Shelf Life |
|--|-------------------|--------------------|---------------------------------|------------------------------|------------|
| <b>OptiVibro® NK Cell Serum-free Medium NE01 (phenol red-free)</b> | <b>NE000-N042</b> | <b>1000 mL kit</b> | <b>2-8°C Protect From Light</b> | -                            | -          |
| OptiVibro® NK Cell Serum-free Basal Medium NE01 (phenol red-free)  | BA0142            | 1000 mL            | 2-8°C Protect From Light        | < 25°C<br>Protect From Light | 12 months  |
| OptiVibro® Immune Cell Serum-free Medium Supplement UE01           | BA0332            | 8 mL               | 2-8°C Protect From Light        | < 25°C<br>Protect From Light | 18 months  |
| <b>OptiVibro® NK Cell Serum-free Medium NE01 (phenol red-free)</b> | <b>NE000-N041</b> | <b>500 mL kit</b>  | <b>2-8°C Protect From Light</b> | -                            | -          |
| OptiVibro® NK Cell Serum-free Basal Medium NE01 (phenol red-free)  | BA0141            | 500 mL             | 2-8°C Protect From Light        | < 25°C<br>Protect From Light | 12 months  |
| OptiVibro® Immune Cell Serum-free Medium Supplement UE01           | BA0331            | 4 mL               | 2-8°C Protect From Light        | < 25°C<br>Protect From Light | 18 months  |

|  |                    |                   |                                 |                              |           |
|--|--------------------|-------------------|---------------------------------|------------------------------|-----------|
| <b>OptiVibro® NK Cell Serum-free Medium NE01 (phenol red-free)</b> | <b>NE000-N041S</b> | <b>100 mL kit</b> | <b>2-8°C Protect From Light</b> | <b>-</b>                     | <b>-</b>  |
| OptiVibro® NK Cell Serum-free Basal Medium NE01 (phenol red-free)  | BA0141S            | 100 mL            | 2-8°C Protect From Light        | < 25°C<br>Protect From Light | 12 months |
| OptiVibro® Immune Cell Serum-free Medium Supplement UE01           | BA0331S            | 0.8 mL            | 2-8°C Protect From Light        | < 25°C<br>Protect From Light | 18 months |

## | PERFORMANCE, APPLICATION AND HANDLING

### RECOMMENDATIONS

1. Store cell culture medium in a dark environment, preferably in colored packaging, to protect from light exposure.
2. Avoid prolonged exposure to fluorescent or other types of lighting during transport to prevent discoloration.
3. Implement thorough cleaning and sterilization methods for transport to sterile areas; avoid UV sterilization.
4. Switch off UV lamps when transferring through UV-sterilized windows.

## | INSTRUCTION FOR USE

### Prepare media

1. Equilibrate OptiVibro® NK Cell Serum-free Basal Medium NE01 and OptiVibro® Immune Cell Serum-Free Medium Supplement UE01 to room temperature for 1-4 hours.
2. In a biosafety cabinet, add 8 mL/4 mL of supplement to every 1 L/500 mL of basal medium. Mix by inverting 3-5 times to obtain the complete medium.

### 【Note】

This OptiVibro® NK Cell Serum-free Medium NE01 is designed to be used in conjunction with essential cytokines to facilitate the activation and expansion of NK cells. It is crucial to supplement this medium with the necessary cytokines according to your specific cell activation protocol to achieve the desired results for NK cell

culture. The addition of cytokines provides the required signals for NK cell proliferation and function, and their absence may result in suboptimal cell growth or lack of cell activation. Always refer to your cytokine supplier's instructions for the appropriate concentrations and incubation conditions to ensure the successful expansion of NK cells.

## **| DISCLAIMER**

1. Use the product according to the manual instructions. Deviations from these instructions are at the user's risk, and our company will not be responsible for any resulting product performance deviations.
2. This product is for scientific research and commercial production only and is not intended for clinical diagnosis or treatment. Users assume all risks for unauthorized use, and our company shall not be responsible for any consequences.