

# Culture Medium for Activation and Expansion of Activated Human NK Cell

## KBM 501 & 502/502B

These products are registered in MF and the FDA Drug Master File.

### Overview

KBM501 is optimized for activation of human peripheral blood natural killer cells.

KBM502 and KBM502B are used for the subsequent expansion culture of the activated lymphocytes with KBM501.

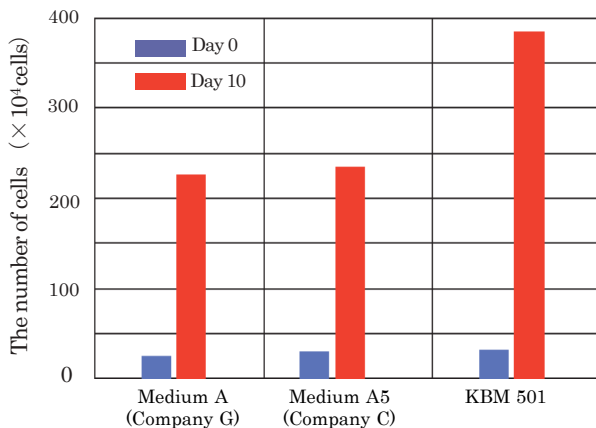
### Characteristics

- No proteins other than human serum albumin, human transferase, recombinant human insulin and recombinant human interleukin 2 have been added.
- Capable of minimize pH variation by enhanced buffer capacity.
- Kanamycin sulphate is contained as an antibiotic.
- The bag of KBM502B is made of a material with excellent gas permeability and its safety and quality have been confirmed based on the plastic drug container test method of the Japanese Pharmacopoeia.

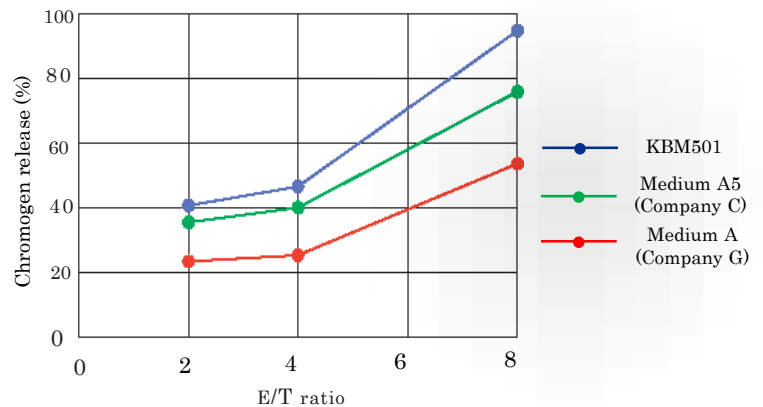


### Cell Culture Example

Proliferative response of IL2-dependent human lymphocytes on immobilized anti-CD3 antibody



Cytotoxicity of activated lymphocytes to K562 cells



Surface markers of activated lymphocytes

#### [Culture Protocols]

**Seeded Cells :** Normal human peripheral blood monocytes  
**Medium :** KBM 501(recombinant human interleukin 2 : 2810 IU/mL)  
 1% inactivated autoplasm was added during the culture.  
**Culture Vessel :** 12-well plate on which anti-human-CD3 antibody is immobilized.  
**Protocols :** Cultured at a seeding density of  $2.7 \times 10^5$  cells/mL, under static condition at 37°C • 5% CO<sub>2</sub>. Expand the scale of culture depending on cell proliferation with medium containing plasma and recombinant human interleukin-2.  
**Analysis :** At day 10, surface markers of activated lymphocytes were analyzed by flow cytometry, and cytotoxicity to K562 cells were measured with TeraScan.

Surface marker	Incidence (%)		
	KBM 501	Medium A	Medium A5
CD3- CD56+	1.74	1.23	0.54
CD3+ CD56+	15.52	32.93	35.91
CD3- CD56-	0.93	2.06	0.68
CD3+ CD56-	81.81	63.78	62.87

Product No.	Product Name	Size	Price	Shelf time	Storage
16025015	KBM 501 (IL-2 : 2810 IU/mL)	500 mL	JPY 20,000	8 months	2-8°C
16025020	KBM 502 (IL-2 : 281 IU/mL)	1000 mL	JPY 16,000	8 months	2-8°C
1602502B	KBM 502B (IL-2 : 281 IU/mL)	1000 mL	JPY 17,500	8 months	2-8°C

\* This product is sold for research purpose only.