

Serum-free Medium for Peripheral blood lymphocytes

KBM591

KBM591 is a medium suitable for activation and expansion culture of human lymphocytes and is possible to expand lymphocytes without adding serum.

Characteristics

- Antibiotics or cytokines such as interleukin-2 are not included.
- In addition to T cells, it can activate and expand culture of NK cells.
- Chemically-defined and Xeno-free medium.
- Serum can be added to the medium.

Proliferation for T cell

【Cells】 Human peripheral blood
 【Medium】 KBM 591
 【Vessel】 24 well plate coated with anti-CD3
 【Protocol】 Seeded 4×10^5 cells/well and incubated statically at $37^\circ\text{C} \cdot 5\%$ carbon dioxide.
 Added KBM591(with IL-2) according to growth, and cultured for 14 days.

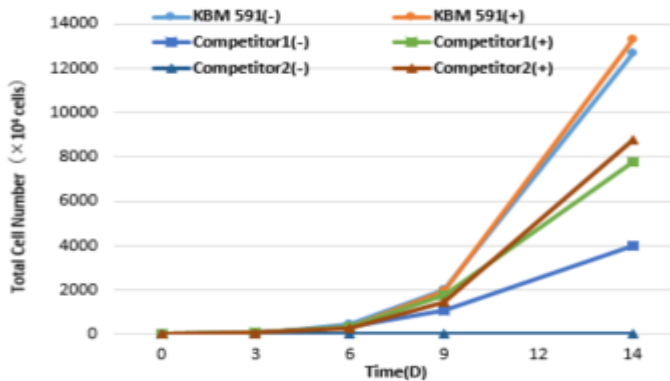


Fig. 1 : T cell Proliferative Response

Proliferation for NK cell

【Cells】 Human peripheral blood
 【Medium】 KBM 591
 【Vessel】 24 well plate coated with NKCC-c
 【Protocol】 Seeded 1×10^6 cells/well and incubated statically at $37^\circ\text{C} \cdot 5\%$ carbon dioxide.
 Added KBM591(with IL-2) according to growth, and cultured for 14 days.

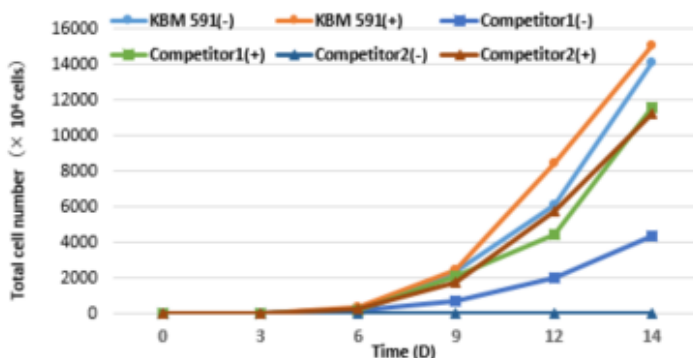


Fig. 3 : NK cell Proliferative Response

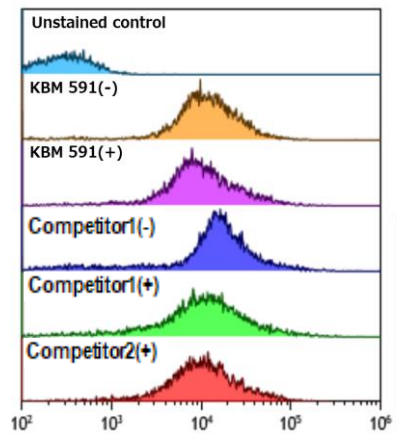


Fig. 2 : CD3 Positive Rate

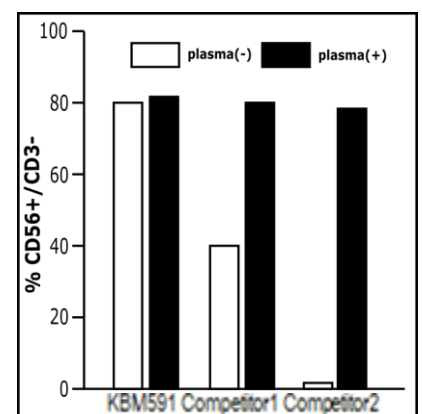


Fig. 4 : NK cell Marker Ratio

Product No	Product Name	Size	Price	Shelf Life	Storage
16025910	KBM 591	1000mL	JPY14,500	12 months	2~8°C

* This product is sold for research purposes only.