KBM 551 (Medium for Activation and Expansion Culture of Human T Cells)





Feature

This medium was developed to support the growth of T cells activated with immobilized

anti-CD3 antibody.

The addition of interleukin-2 is necessary for the culture.

- The medium is composed of injection solvent and many pharmaceutical grade high purity reagent.
- This medium does not contain proteins except for human serum albumin (pharmaceutical grade), recombinant human insulin.
- ■Capable of minimize the variation of pH by enhanced buffer capacity.
- •Kanamycin sulfate is contained as antibiotic.
- The medium has good keeping quality.



- 1. This medium is optimized for activation and expansion culture of human T cells activated with immobilized anti-CD3 antibody.
- 2. Add 5-10% autoserum or autoplasma at the onset of culture and necessary quantity of human interleukin-2.
- 3. Upon cell proliferation, add autoserum(autoplasma) and medium culture which includes interleukin-2, scale up the culture. There would be a case to skip additing autoserum(autoplasma) this time.

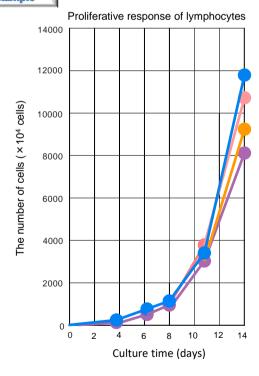
Osmolality: 295 \pm 10 mOsm/kg ${\rm H_2O}$ (determined by freezing point depression osmometry) pH: 7.2 \pm 0.2 (determined using a glass electrode)

Sterilization: Negative (Membrane filtration) Mycoplasma Test: Negative (PCR detection)

Endotoxin Test: Less than 0.3 EU/mL (Determined by Limulus amebocyte lysate assay)

Notice: This product is only for research use, and not for human or animal therapeutic use.

Cell Culture Example

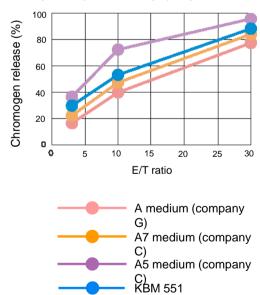


Code: 16025510 Product Name: KBM 551

Form: Liquid Size: 1,000 mL Storage: 2-8°C

Shelf Life: 8 months from production date

Cytotoxicity of activated lymphocytes to K562 cells



Performance evaluation of KBM551:

Vessel: 12-well plate on which anti-human-CD3 antibody is immobilized.

Cell: Normal human peripheral blood monocytes

Cytokine: Recombinant human interleukin-2 (175 IU/mL) was added.

Plasma: 5% inactivated autoplasma was added at the onset of culture.

Proliferative test: The culture was started at a seeding density of 6×10^5 cells/mL, under static conditions at 37° C, 5% CO2. Upon cell proliferation, the culture was diluted by adding each medium containing the cytokine without plasma

Analysis: At day 14, the cytotoxicity to K562 cells were measured with TeraScan that is a microfluorocytometer developed for measuring cytotoxicity.