

Serum-free Cell Freezing Medium for long-term preservation of valuable cultured cells

Bambanker® Direct

User's Manual

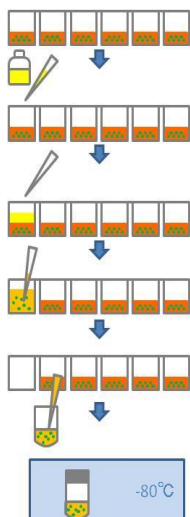
Bambanker® Direct is a novel cell freezing medium, which can be added directly to culture medium without centrifuging the collected cells. Then after suspending the cells, you can freeze and preserve the cells in a deep freezer at -80°C . In order to meet customers' requests, this product has been modified not to require tiring preparation steps for freezing. This newly developed medium maximizes the work efficiency in your research.

[Features]

- ◆ Tiring preparation steps for freezing are not necessary. (Directly add Bambanker® Direct to culture medium without centrifuging the cells.
- ◆ Ready-to-use without dilution
- ◆ No programmable freezer is required.
- ◆ Rapid freezing and long-term preservation in a deep freezer at -80°C .
- ◆ Serum-free.

[Operating Procedure]

<Freezing of suspended cells>



Take out cells in a culture process from an incubator.

Measure the same amount of Bambanker® Direct as that of the culture medium.

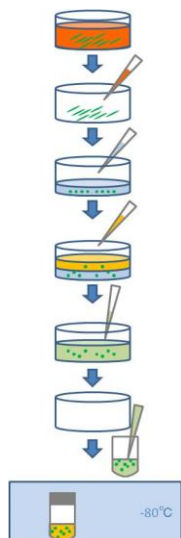
Add the Bambanker® Direct to the cells.

Conduct a gentle pipetting so that the culture medium and Bambanker® Direct are uniformly mixed.

Transfer the mixed solution to cryo-tubes for freezing and preservation.

Freeze the cells at -80°C .

<Freezing of adherent cells>



Take out cells in a culture process from an incubator.

Remove the culture.

Rinse the cells twice with PBS, and then add cell detachment solution and heat it up.

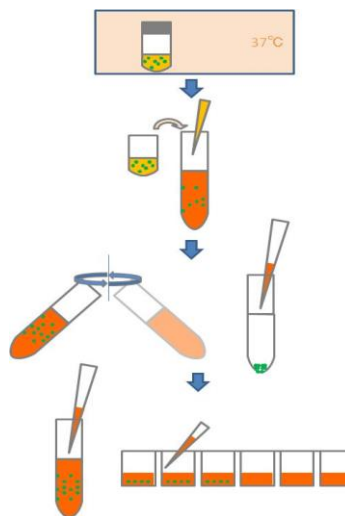
Add the same amount of Bambanker® Direct as that of the detachment solution.

Conduct a gentle pipetting so that the detachment solution and Bambanker® Direct are uniformly mixed.

Transfer the mixed solution to cryo-tubes for freezing and preservation.

Freeze the cells at -80°C .

<Thawing>



Rapidly thaw the cells at 37°C .

Suspend the cells in culture medium.

Centrifuge it, and then remove the supernatant.

Suspend the cells in culture medium, and then start the seeding and cell culture.

<Kit component>

Specification	Package Unit	Storage	Expiration period
Serum-free Cell Freezing Medium, containing DMSO	20mL	Keep in a cold & dark place ($2 - 10^{\circ}\text{C}$)	Two years from manufacturing

<Sterility test>

Endotoxin: colorimetric method

Mycoplasma: Culture method

Fungi and bacteria: agar streak test

<Applications>

OKT4(mouse hybridoma)

HEK293(human embryonic kidney cell line)

HEK293T(human embryonic kidney cell line)

HeLa(human uterine cervical cancer cell line)

K562(human chronic myeloid leukemia cell line)

C2C12(Mouse skeletal muscle cell line)

PC12(rat adrenal medulla tumor cell line)

<Precautions>

- ◆ **Do not use this product for human body.**
- ◆ **Use only for research purposes.**
- ◆ This product contains bovine serum-derived compounds.
- ◆ Perform a confirmation test on the cells under study before actually using the medium.
- ◆ The manufacturer is not responsible for any accident or damage caused by the use of this product.
- ◆ If you have any question on the use of this product, please contact the local distributor.

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