

## Instruction Manual Bambanker™ DIRECT Serum-Free cell freezing medium

Cat. No. BBD01 (1 x 20 ml), BBD02 (1 x 10 ml)

### - For Research Use Only -

**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, the user 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 significantly.

#### Features:

- 1.) Tiring preparation steps for freezing are not necessary
- 2.) No programmable freezer is required
- 3.) Add Bambanker™ DIRECT to culture medium without centrifuging the cells
- 4.) Ready-to-use without dilution
- 5.) Rapid and long-term freezing and preservation in a deep freezer (-80 °C)
- 6.) Serum-free

#### Operating Procedure:

##### *Freezing of suspended cells*

- 1.) Take out cells in a culture process from an incubator.
- 2.) Measure the same amount of Bambanker™ Direct as that of the culture medium. Add this amount to the cell culture.
- 3.) Conduct a gentle pipetting so that the culture medium and Bambanker™ Direct are uniformly mixed.
- 4.) Transfer the mixed solution to cryo-tubes for freezing and preservation.
- 5.) Freeze cells at -80 °C.

##### *Freezing of adherent cells*

- 1.) Take out cells in a culture process from an incubator.
- 2.) Remove the culture medium.
- 3.) Rinse the cells twice with PBS. Then add cell detachment solution and heat it up.
- 4.) Add the same amount of Bambanker™ Direct as that of the detachment solution.
- 5.) Conduct a gentle pipetting so that the detachment solution and Bambanker™ Direct are uniformly mixed.
- 6.) Transfer the mixed solution to cryo-tubes for freezing and preservation.
- 7.) Freeze cells at - 80 °C.

### Thawing

- 1.) Rapidly thaw the cells at 37 °C.
- 2.) Suspend the cells in culture medium.
- 3.) Centrifuge the cells and then remove the supernatant.
- 4.) Suspend the cells in culture medium and then start the seeding and cell culture.

### Sterility test:

- Endotoxin: Synthetic substrate method
- Mycoplasma: PCR method
- Fungi and bacteria: As per Japanese Pharmacopoeia

### 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:

- Use only for research purposes, not for human use.
- This product contains bovine serum-derived compounds.
- Prior to using this medium, perform the confirmation test on the cells under study.
- The manufacturer is not responsible for any accident or damage caused by the use of this product.
- If you have any questions on the use of this medium, please contact the local distributor.

Cat. no.	Description	Package Size	Storage	Expiration Period
BBD01 (BBD02)	Bambanker™ Direct serum-free cell freezing medium	20 ml (10 ml)	Store at 2-10 °C in the dark	12 months after manufacture

### Distributed by:

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