

Customers product feedback

Product name : Bambanker hRM (BBH01)

Serum-free cryopreservation solution for regenerative medicine research

Application: Comparison of cryopreservation efficiency for the common marmoset fibroblast cells intended for the iPS cell induction

Data kindly provided by Primate Research Institute, University Kyoto, Molecular Physiological Research Department

Methods

Storage efficiency of Bambanker and two commercial preservative solutions (supplier T, supplier S) for fibroblasts from common Marmoset was compared. Fibroblast were cultured in a 6 cm petri dish till a confluency of 90-100%. Cells were passaged two times with Trypsin-EDTA (0.25%). After reaction stop cells were centrifuged at 800 rpm for 5 min. Each pellet was resuspended in 800 µl preservation solution and frozen at -80 °C in Bicell container (Nihon Freezer Co., Ltd.). After two months the cells were slowly thawed in a water bath and resuspended in 5 ml cell culture medium. Thereafter, the cells were centrifuged again (800 rpm, 5 min), the pellet resuspended in 3 ml culture cell medium and each culture seeded in 6 cm gelatine-coated dishes.

Cell preservation method

Preservation solution	Freezing method
Bambanker	Slow method
Suppliers Ts storage solution	Slow method
Suppliers Ss storage solution	Slow method

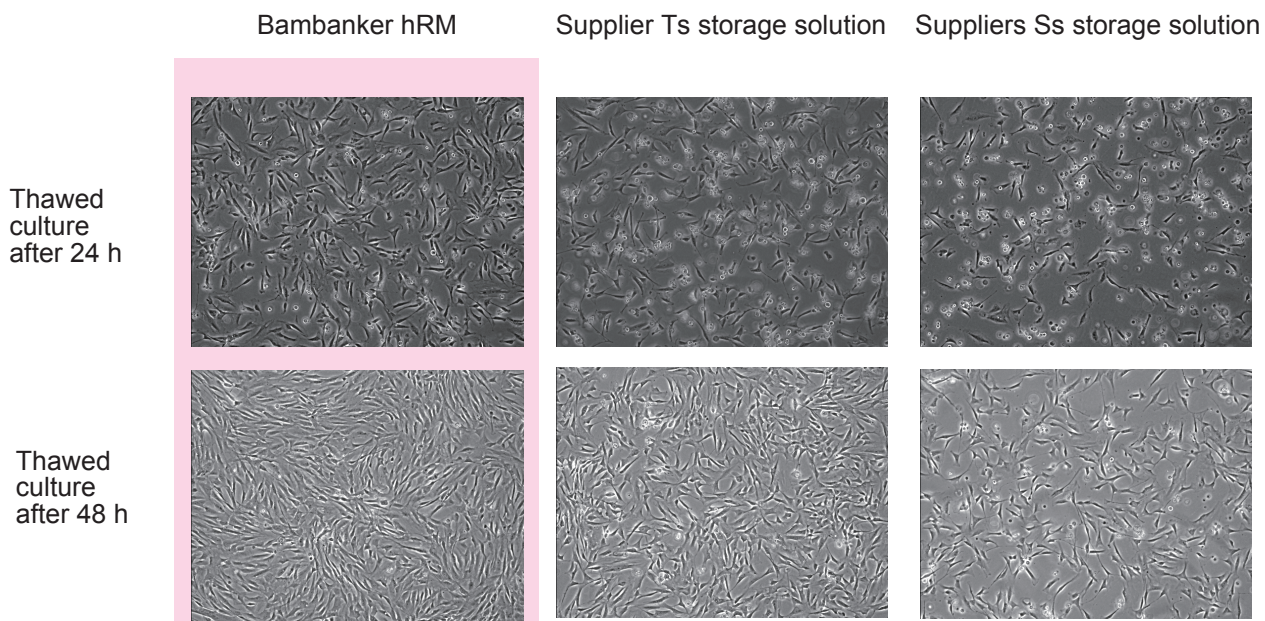
Slow method:

Freezing and storage of the samples at -80 °C.

Result

24 and 48 h after thawing photomicrographs were taken for every preservation solution.

The percentage of dead cells was determined. The highest survival rate was achieved with Bambanker, followed by Supplier Ts storage solution. Supplier Ss storage solution achieved the lowest survival rate. Only the cells which were stored with Bambanker showed a sufficient number so that they could be directly used for iPS cell induction.



Customers comment:

Bambanker hRM is a serum free freezing medium which can be very efficiently used for cryopreservation. Additionally Bambanker hRM is cheaper than the competitors solutions. Since the cryopreservation and also the iPS cell induction went really well, we will use in the future Bambanker hRM for our fibroblasts.