Serum-free cryopreservation of various Chinese hamster ovary cells

<u>성진현</u>, 오덕재* 세종대학교 (djoh@sejong.ac.kr*)

Generally, cryopreservation of cell line is performed with medium that was supplemented with dimethyl sulfoxide (DMSO) at concentration of 5–20% and serum at concentration of 10–20%. In this work, to investigate effect of serum–free cryopreservation, various cell lines were frozen in three serum–free media without serum but used only a cryoprotectant, DMSO 10%. These experiments were used in–house formulated serum–free media (SFM) and commercially available serum–free medium and they were compared. When frozen cells were thawed, their viability reached over 90% and continuous cell growth was observed. These results provide that serum–free cryopreservation is available to store cells in serum–free condition.