BAMBANKER Cryopreservation Test

Cells for storage are collected during the logarithmic growth phase. Cell suspension from the culture vessel was centrifuged to collect the cells. The supernatant was discarded and the cells re-suspended in BAMBANKER (or other media) at 5x5-105 – 1x107 cells per ml. Aliquots of 1ml were added to cryogenic storage vials and the cells frozen at -80C without stepwise cooling. Cells were thawed rapidly in a 37C bath. The number of surviving cells was then determined.

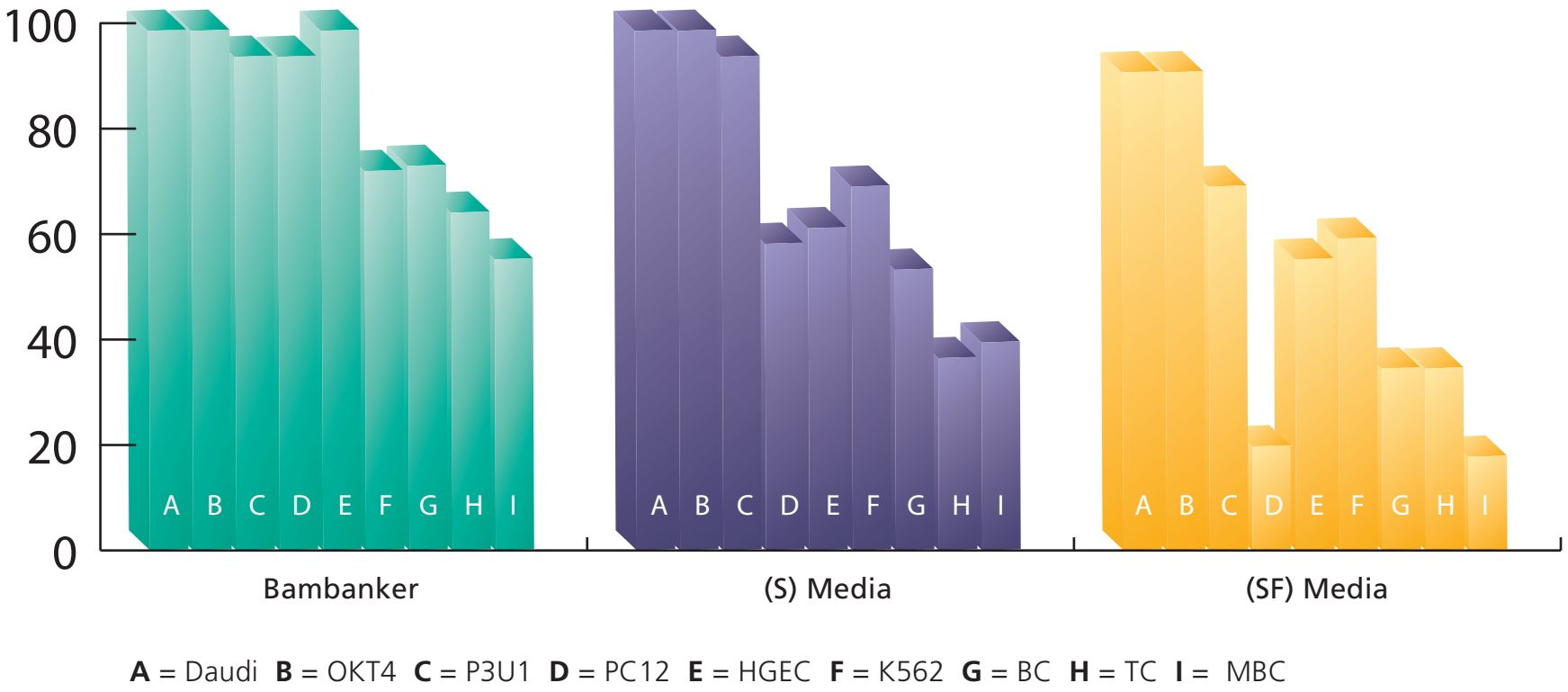

Figure 1 Comparison of different media on cell survival:
Daudi (Human B Cell line) 9.2 x 105 cells per vial, stored at -80C for 1 Year; OKT4 (Mouse hybridoma) 1.3 x 106 cells per vial, stored at -80C for 1 Year; P3U1 (Mouse myeloma cell line) 2.0 x 106 cells per vial, stored at -80C 1 year; PC12 (Rat-derived adrenal pheochromocytoma) 1.0 x 106 cells per vial, stored a -80C for 11 mths; HGEC (Human gastric epithelial cells) 1.0 x 106 cells per vial, stored at -80C for 10 mths; K562 (Human leukaemia cell line) 3.0 x 106 cells per vial, stored at -80C for 1 year; BC (Human B Cells) 1.0 x 106 cells per vial, stored at -80C for 9 mths; TC (Human γδT Cells) 1.0 x 106 cells per vial, stored at -80C for 10 mths; MBC (Monkey B Cells) 1.0 x 106 cells per vial, stored at -80C for 10 mths