

Simulation report

Type of Freezer: Conventional/Radial freezer (e.g., CoolCell®)

Biomixture: DMSO + Culture medium

Mass fraction of DMSO: 0.01 Cooling rate (°C/min): 1

Ice growth velocity (µm/s)

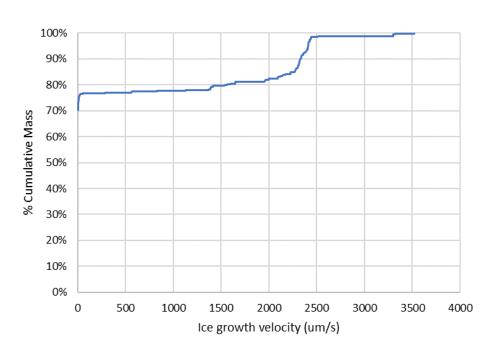


Figure 1: Cumulative mass distribution of ice growth velocity (μm/s)

Cryoconcentration (C/C_0)

Cryoconcentration is defined as the ratio of solute concentration after freezing (C) and initial solute concentration (C_0).

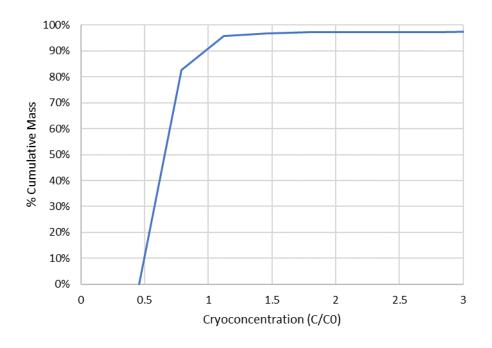


Figure 2: Cumulative mass distribution of cryoconcentration (\mathbb{C}/\mathbb{C}_0)

Freezing stress-time (min)

Freezing stress-time is defined as the time that a cell spends between the freezing temperature (T_f) and the vitrification temperature (T_g ').

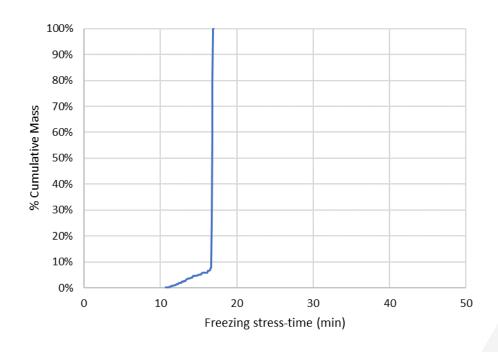


Figure 3: Cumulative mass distribution of freezing stress-time (min)

PRECISION CRYOSYSTEMS

For more informations or technical support:

Please contact SMARTFREEZ by the following e-mails:

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Our engineers will get back to you.

www.smartfreez.com

