SMARTFREEZ
PRECISION CRYOSYSTEMS

Simulation report

Type of Freezer: Conventional/Radial freezer (e.g., CoolCell®)
Biomixture: DMSO + Culture medium
Mass fraction of DMSO: 0.1
Cooling rate (°C/min): 5

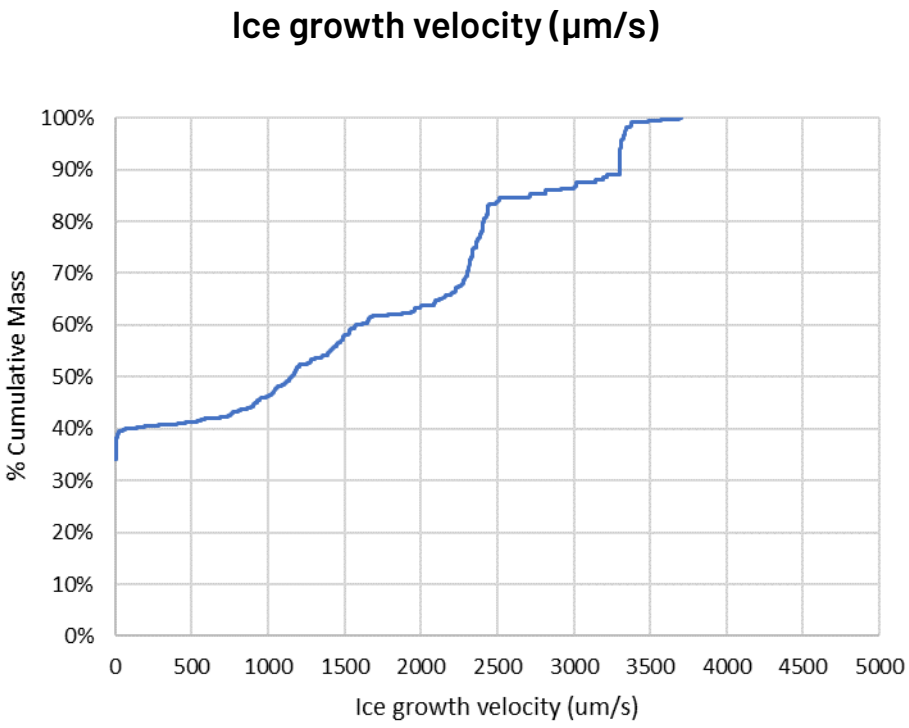

Figure 1: *Cumulative mass distribution of ice growth velocity (µm/s)*

Cryoconcentration (C/C_0)

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

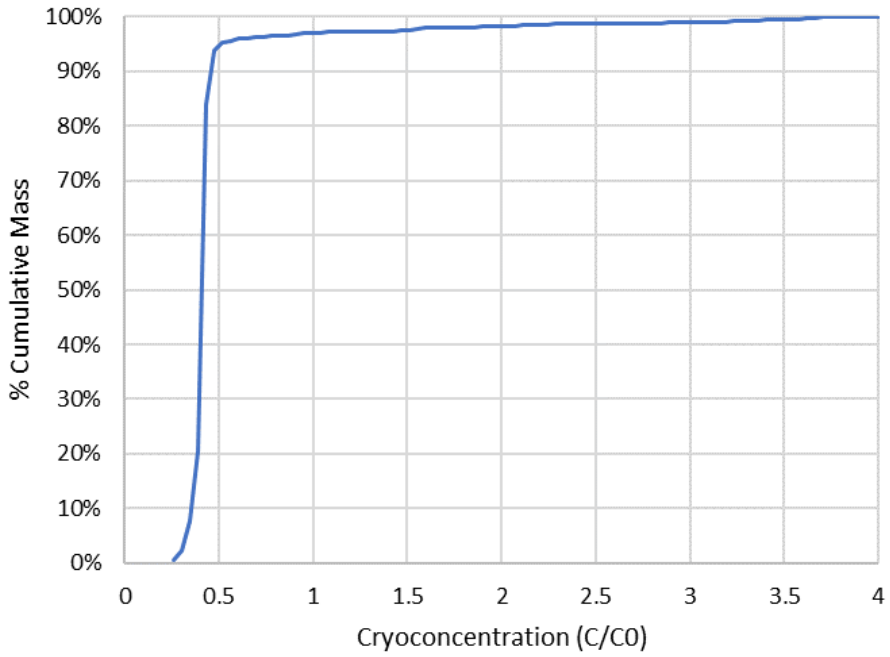

Figure 2: *Cumulative mass distribution of cryoconcentration (C/C_0)*

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').

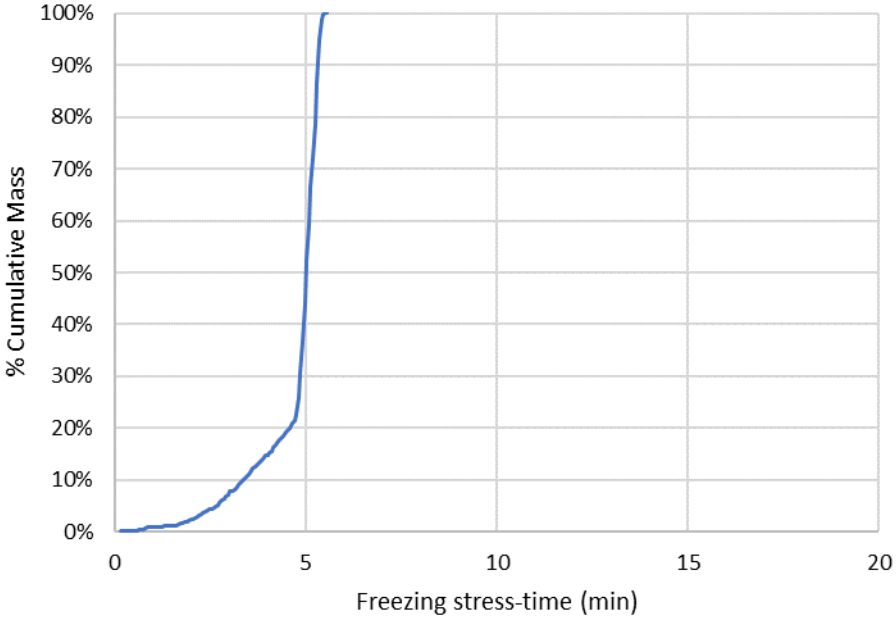

Figure 3: *Cumulative mass distribution of freezing stress-time (min)*

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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

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