Enhancing Post-Thaw Motility & Viability with Non-Permeating Cryoprotectants

Comparative Analysis of Fructose, Glucose, Sucrose, and Trehalose

% Difference

Pre vs. Post-Thaw

25.45

Pre-Freeze

Progressive

Motility (%)

60.50

Pre-Freeze

Viability (%)

59.88

Post-Thaw

Progressive

Motility (%)

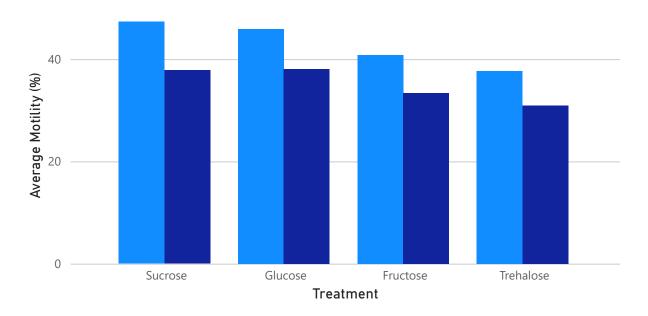
35.05

Post-Thaw Viability (%)

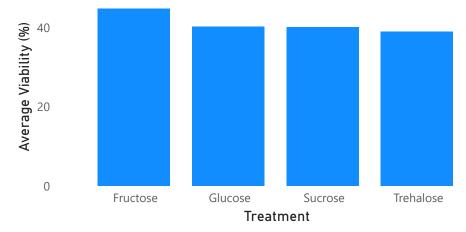
41.00

Average Total Motility and Progressive Motility of Treatment

● Average Total Motility ● Average Progressive Motility



Average Viability (%) of Each Treatment



Insights:

- Glucose yielded the highest progressive motility.
- Fructose yielded the highest viability.
- Trehalose yielded the lowest motility and viability.