The Cell Freezing Container Advantage







Alcohol-Filled Container	Alcohol-Free Cell Freezing Container
Requires isopropanol Replace alcohol every 5 uses Keep track of number of uses Pre-cool alcohol in refrigerator	No alcohol No fluids No pre-cooling
Inconsistent freeze rate • Alcohol degradation induces variability • Two circles os wells - different freeze rates for evach	No variability All vials have uniform freeze rate Radially symmetric design ensures consistency
Approximately \$350/year Change alcohol weekly Disposal of hazardous waste	No on-going cost No alcohol purchase or disposal
Difficult to handle Screw cap difficult to remove when frozen Frozen unit is slippery and cold to touch	No stuck lids Lid comes off easily when frozen Not cold to the touch when removing from the -80°C freezer
Wait between runs Takes >1 hour for device to return to room temperture for re-use	Quick re-use time Ready to use again after five minutes
Large thermal mass impacts local freezer area Large heat capacity removed from alcohol impacts nearby samples	Low impact on freezer 1/3 the heat impact on freezer compared to alcohol-filled units

