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

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