

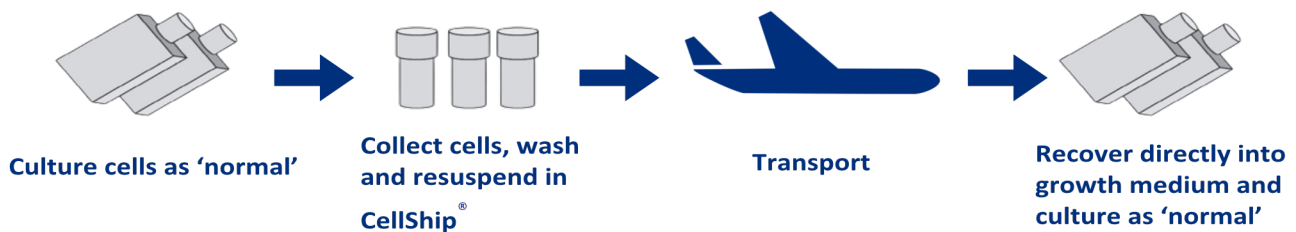
# CellShip®

## Fully defined, xeno-free cell transportation medium

*Your viable alternative to cryopreservation*

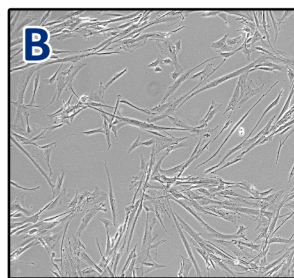
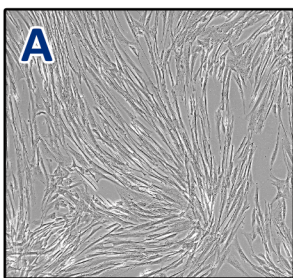
CellShip® provides a simple, cost-effective alternative to using logistically challenging and expensive dry ice, or dry shippers. Cells can be transported between institutions, biomanufacturers and cell-based therapy manufacturing sites and the clinic, without cryopreservation

The protocol requires minimal cell manipulation, reducing the risk of contamination and improving efficiency within the laboratory.

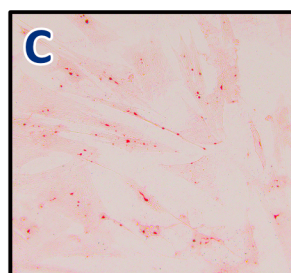
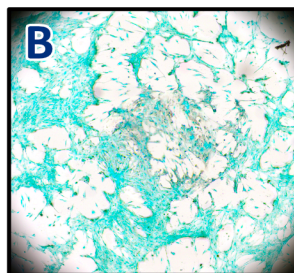
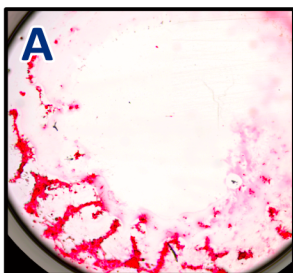


Canine mesenchymal stem cells transported/ stored in CellShip® for 72 h:

- ✓ Adhere and start proliferating more quickly than the cryopreserved controls
- ✓ Have increased viability compared to the cryopreserved controls
- ✓ Have the same differentiation potential as the cryopreservation controls
- ✓ Have slightly increased or comparable metabolic activity after transport
- ✓ Express the same CD markers as the cryopreservation controls



Following 72 h transport, cell numbers were normalised and they were recovered for 6 days. The increased confluency in flask A indicates that cells recovering from transport in CellShip® re-enter the cell cycle more quickly than cells recovered from cryopreservation.

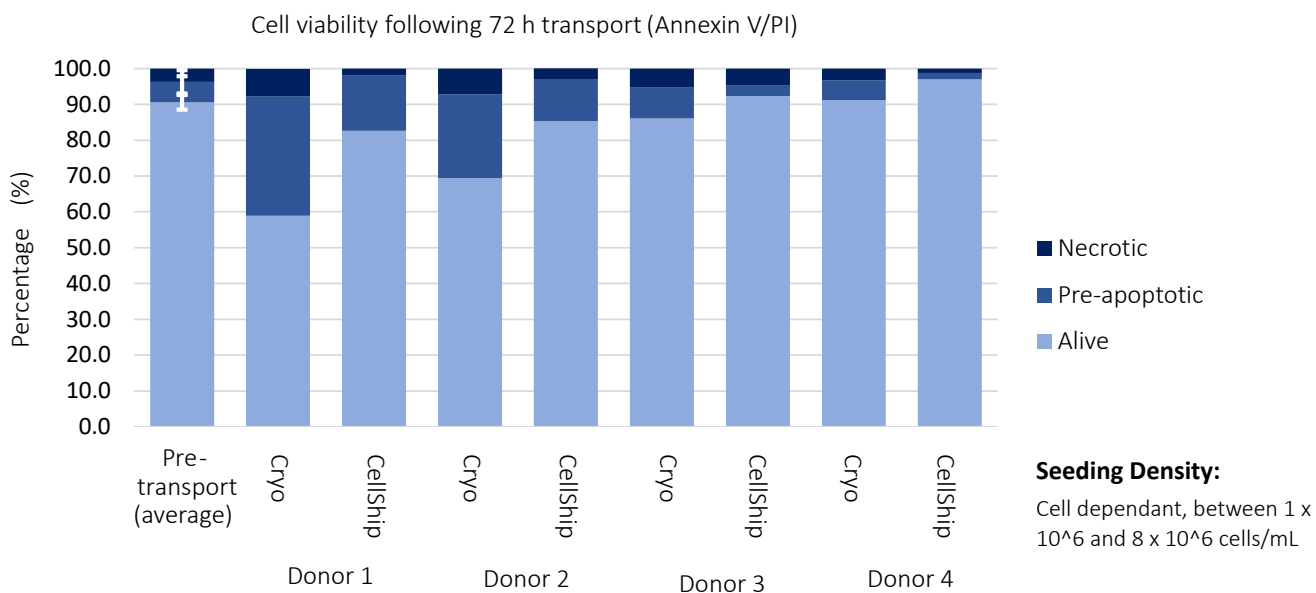


Cells transported in CellShip® maintain their differentiation potential and are able to undergo osteogenesis (A), chondrogenesis (B) and adipogenesis (C).

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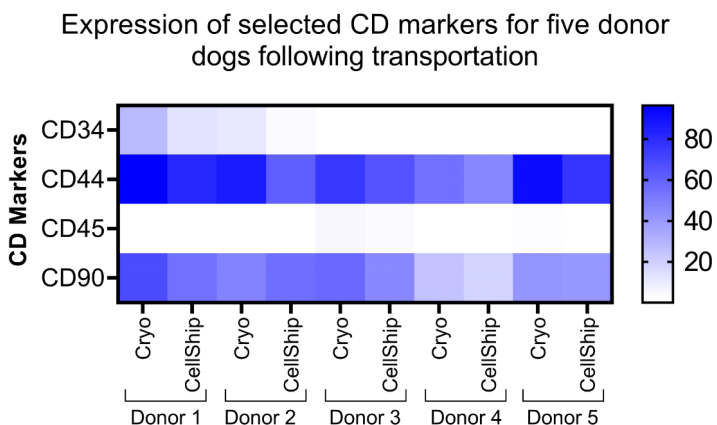
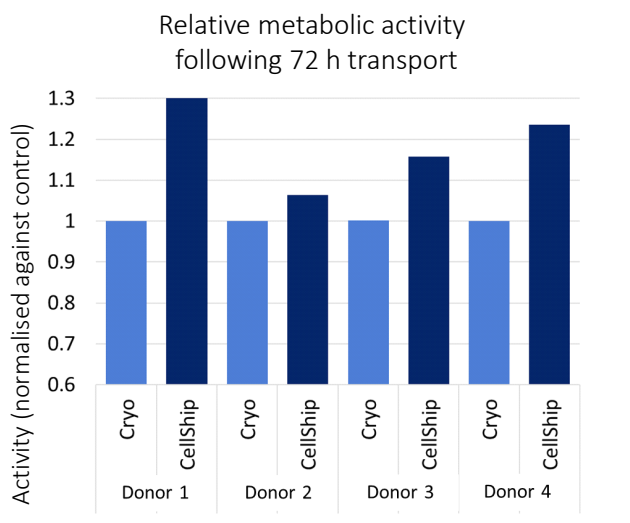
**CliniSciences Group**

Adipose derived MSCs from individual donor dogs (n = 3- 5) were either transported in CellShip® were cryopreserved and stored at -80°C to represent shipping on dry ice.



A WST-1 assay was used to assess metabolic activity. Cells were analysed following 72 h transport (cell numbers normalised)

CD marker expression was assessed using flowcytometry. Cells were analysed following 72 h transport



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