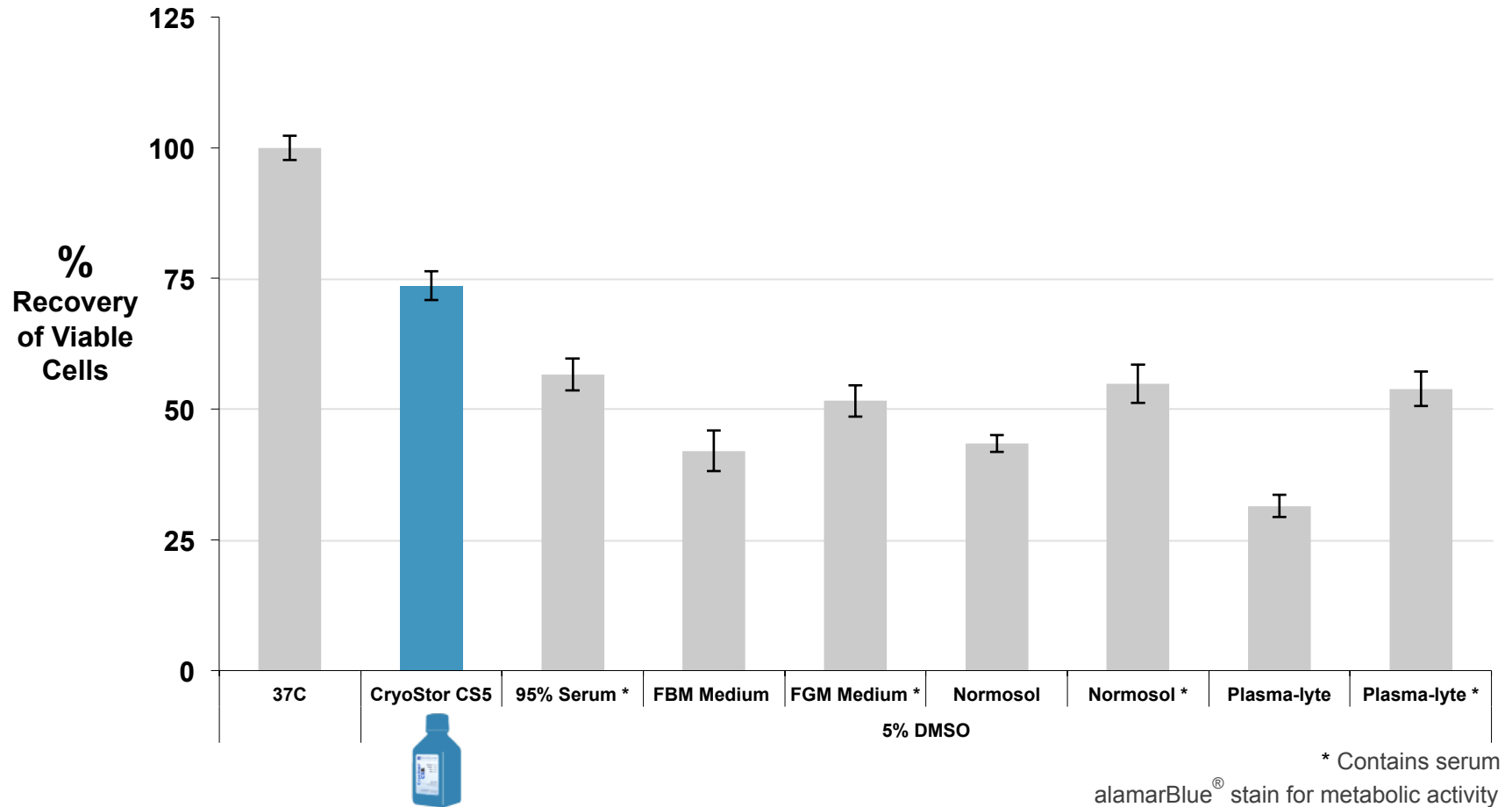


The background of the slide is a dark blue gradient with numerous overlapping circles of varying sizes and opacities, creating a bokeh effect. The circles are in shades of light blue and cyan, some appearing as soft, out-of-focus light spots and others as more defined, semi-transparent shapes.

# CryoStor<sup>®</sup> Performance Evidence

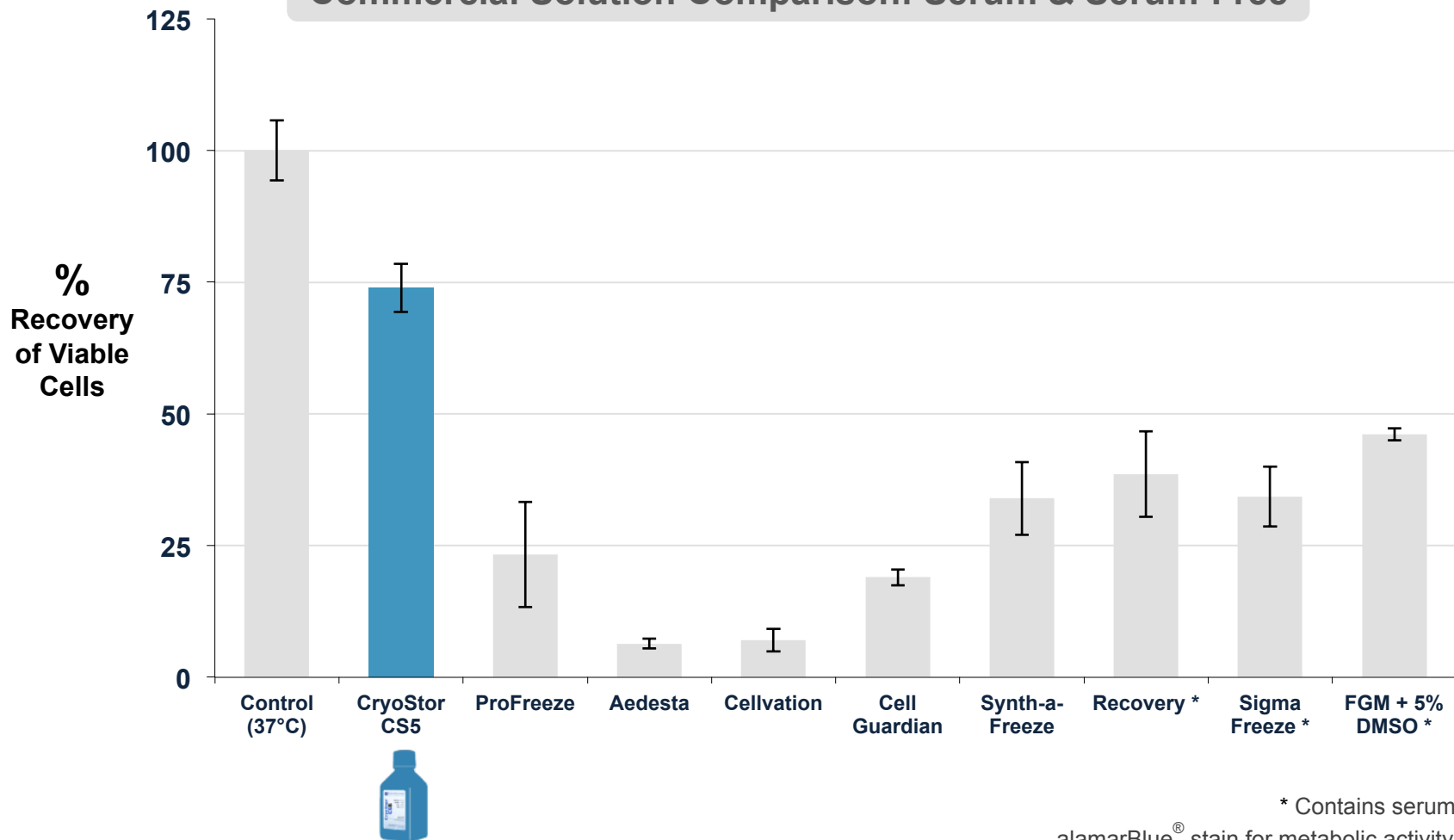
# Recovery of Human Mesenchymal Stem Cells Following Cryopreservation With Serum-Free CryoStor®

Comparison to Serum Containing Home-Brew Media



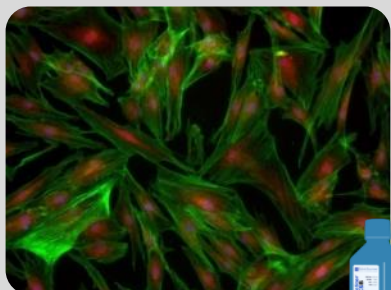
# Recovery of Normal Human Dermal Fibroblasts Following Cryopreservation With Serum-Free CryoStor®

Commercial Solution Comparison: Serum & Serum-Free

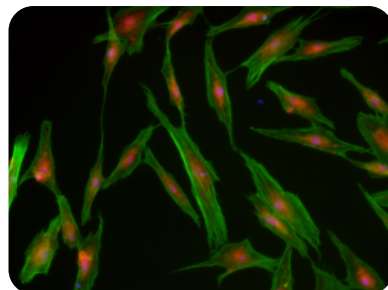


## Representative Fluorescent Micrographs Illustrating Post Cryopreservation Morphology of NHDF Stored in Serum-Free CryoStor®

**CryoStor® CS5**



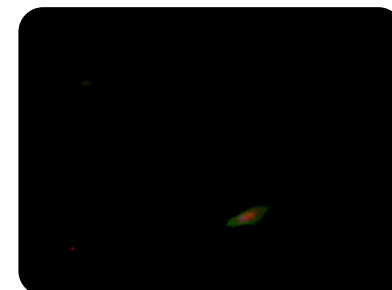
**ProFreeze®**



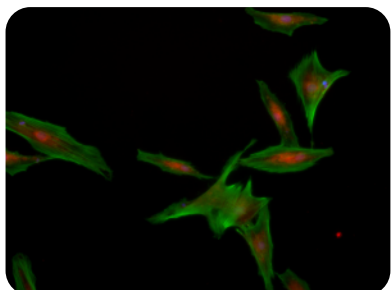
**Aedesta®**



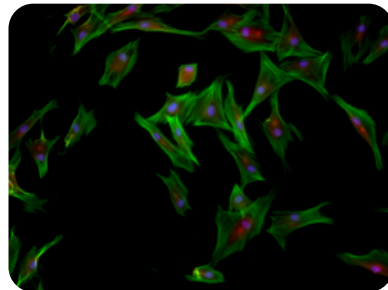
**Cellvation®**



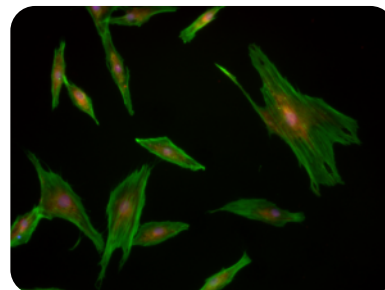
**Cell Guardian®**



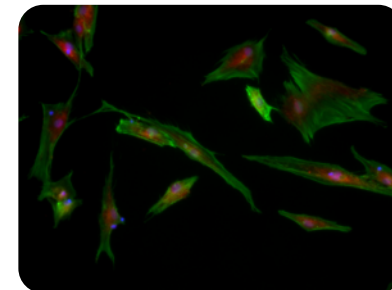
**Synth-a-Freeze®**



**Recovery**



**Sigma**



**Green**

Actin Cytoskeleton  
Phalloidin (FITC)

**Red**

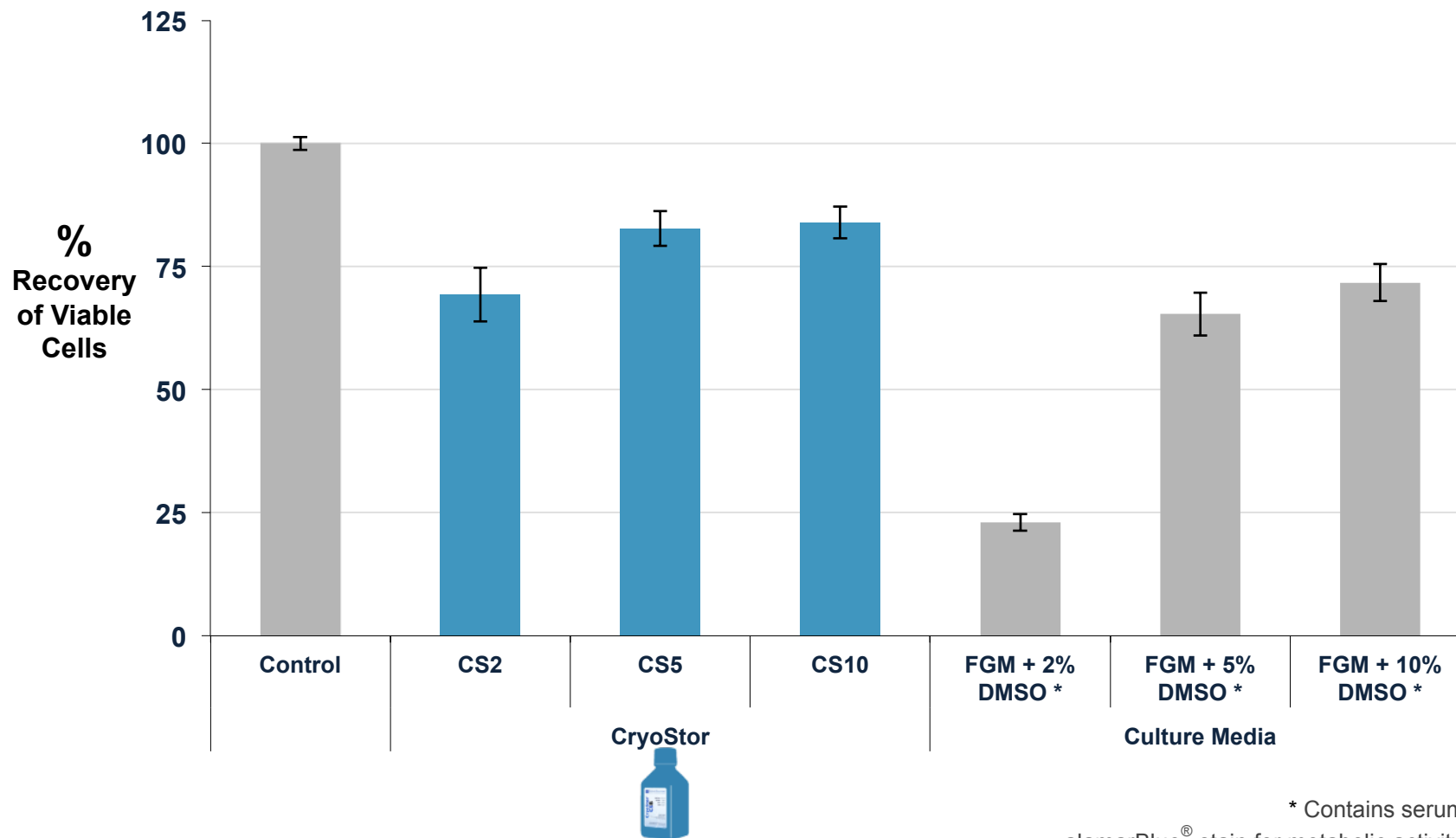
Mitochondria Activation  
MitoTracker® Red

**Blue**

Nuclear Stain  
Hoechst

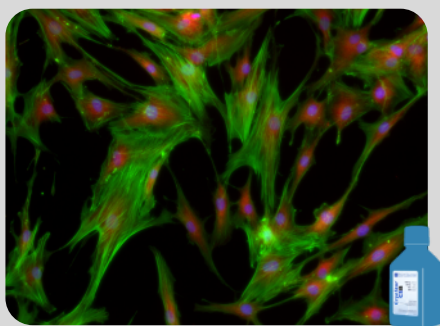
# Recovery of Human Mesenchymal Stem Cells Following Cryopreservation With Serum-Free CryoStor®

Comparison to Serum Containing Home-Brew Media

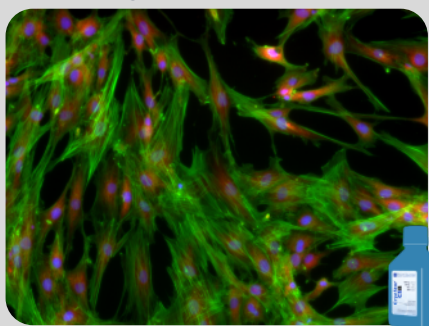


## Representative Fluorescent Micrographs Illustrating Post Cryopreservation Morphology of hMSC Stored in Serum-Free CryoStor®

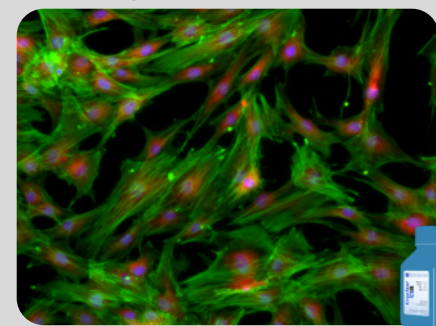
**CryoStor® CS2**



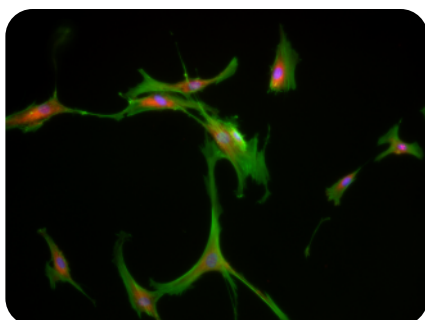
**CryoStor® CS5**



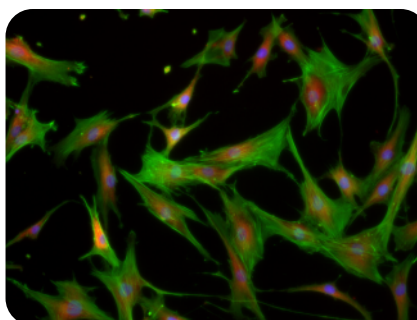
**CryoStor® CS10**



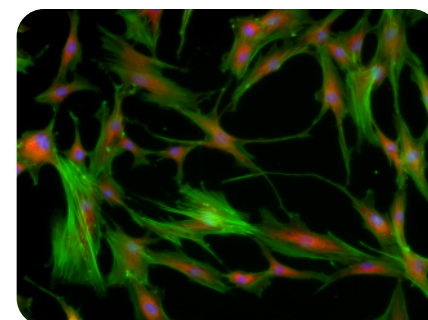
**FGM + 2% DMSO**



**FGM + 5% DMSO**



**FGM + 10% DMSO**



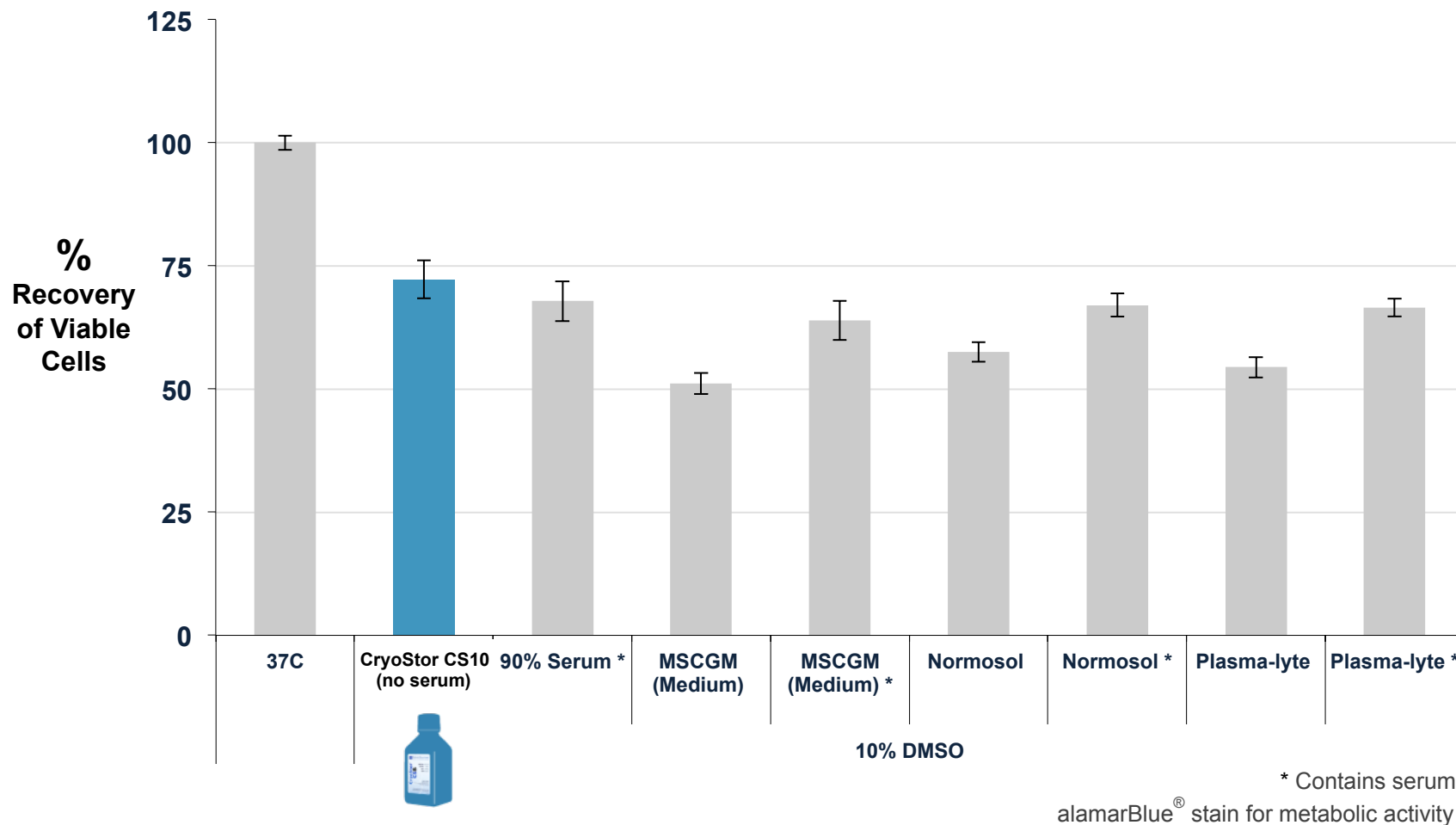
**Green**  
Actin Cytoskeleton  
Phalloidin (FITC)

**Red**  
Mitochondria Activation  
MitoTracker® Red

**Blue**  
Nuclear Stain  
Hoechst

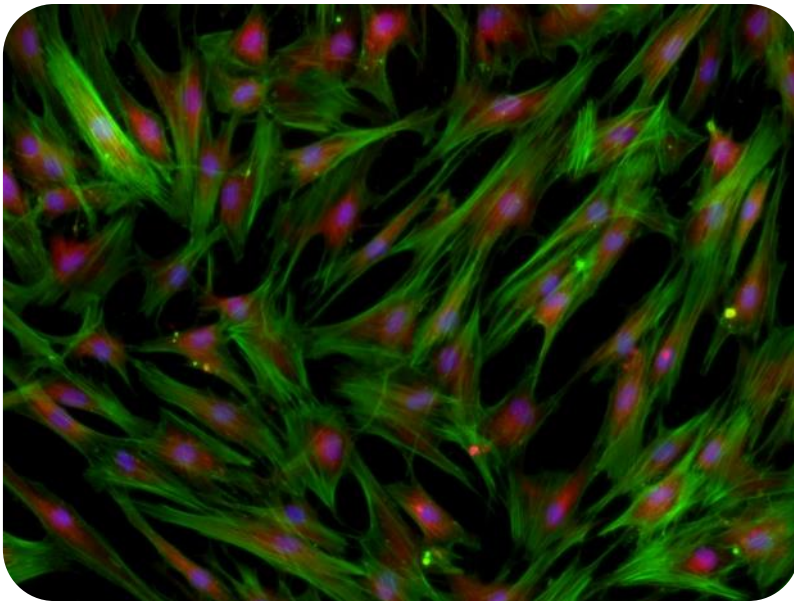
# Recovery of Human Mesenchymal Stem Cells Following Cryopreservation With Serum-Free CryoStor®

Comparison to Serum Containing Home-Brew Media

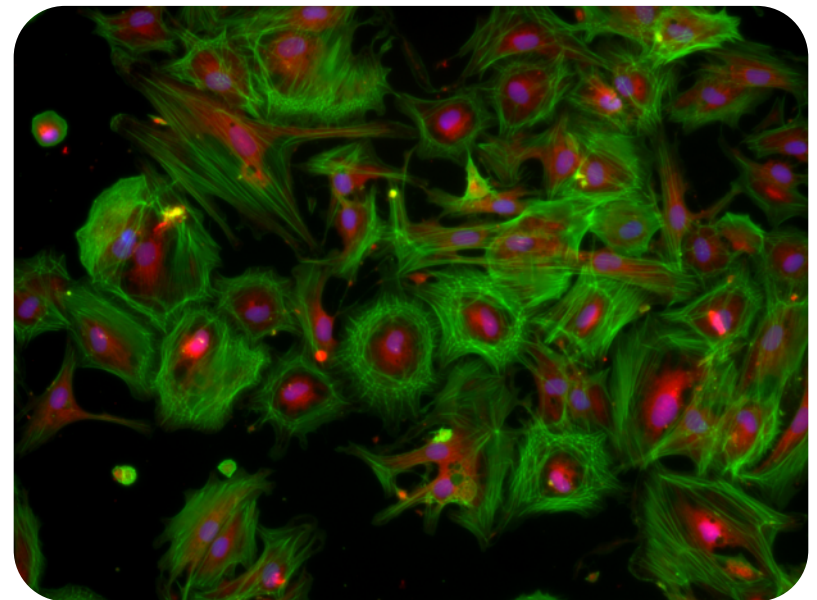


## Representative Fluorescent Micrographs Illustrating Post Cryopreservation Differentiation Capacity & Morphology of hMSC Stored in CryoStor®

hMSC (Undifferentiated)



hMSC Osteoblasts



**Green**

Actin Cytoskeleton  
Phalloidin (FITC)

**Red**

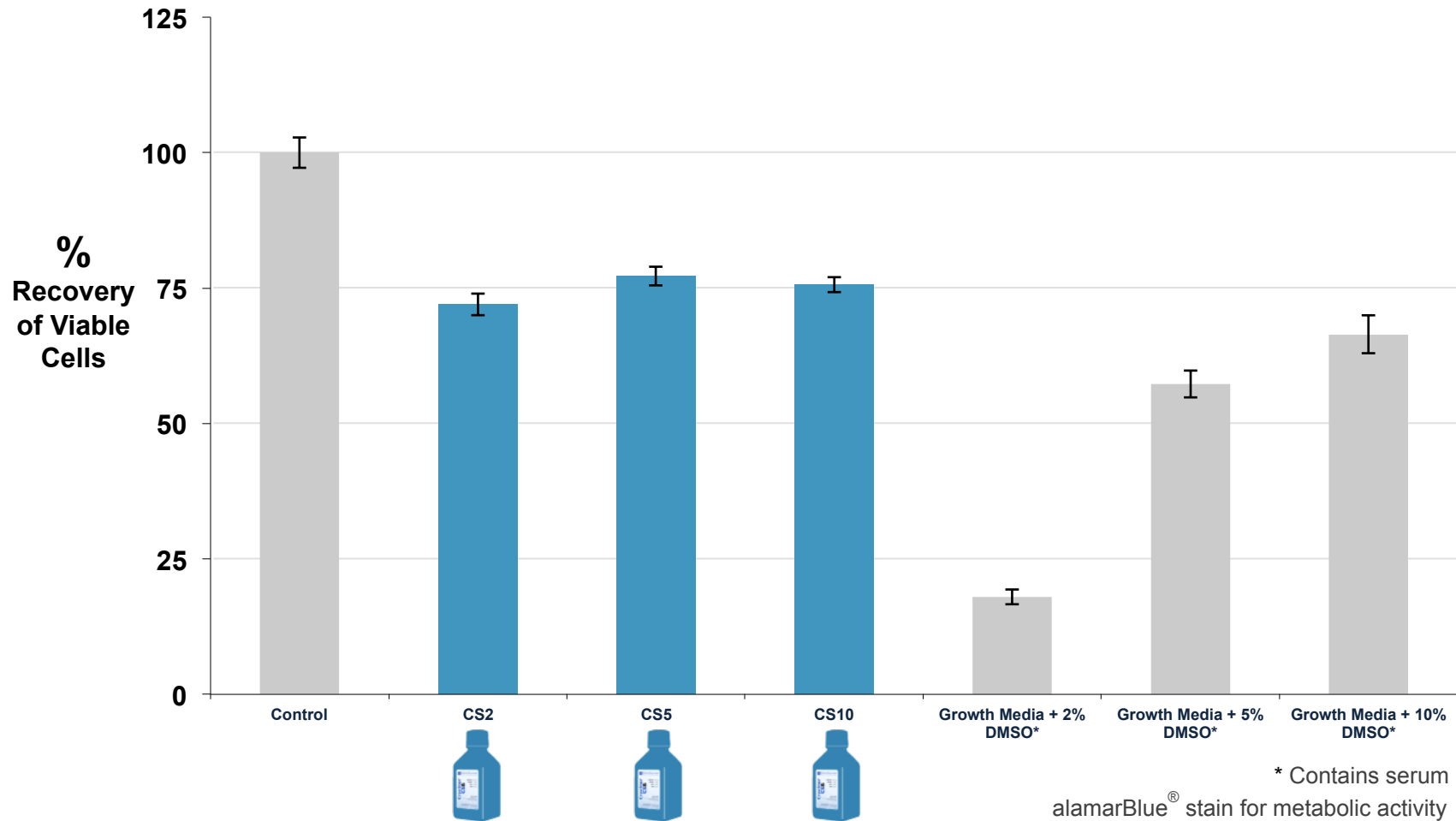
Mitochondria Activation  
MitoTracker® Red

**Blue**

Nuclear Stain  
Hoechst

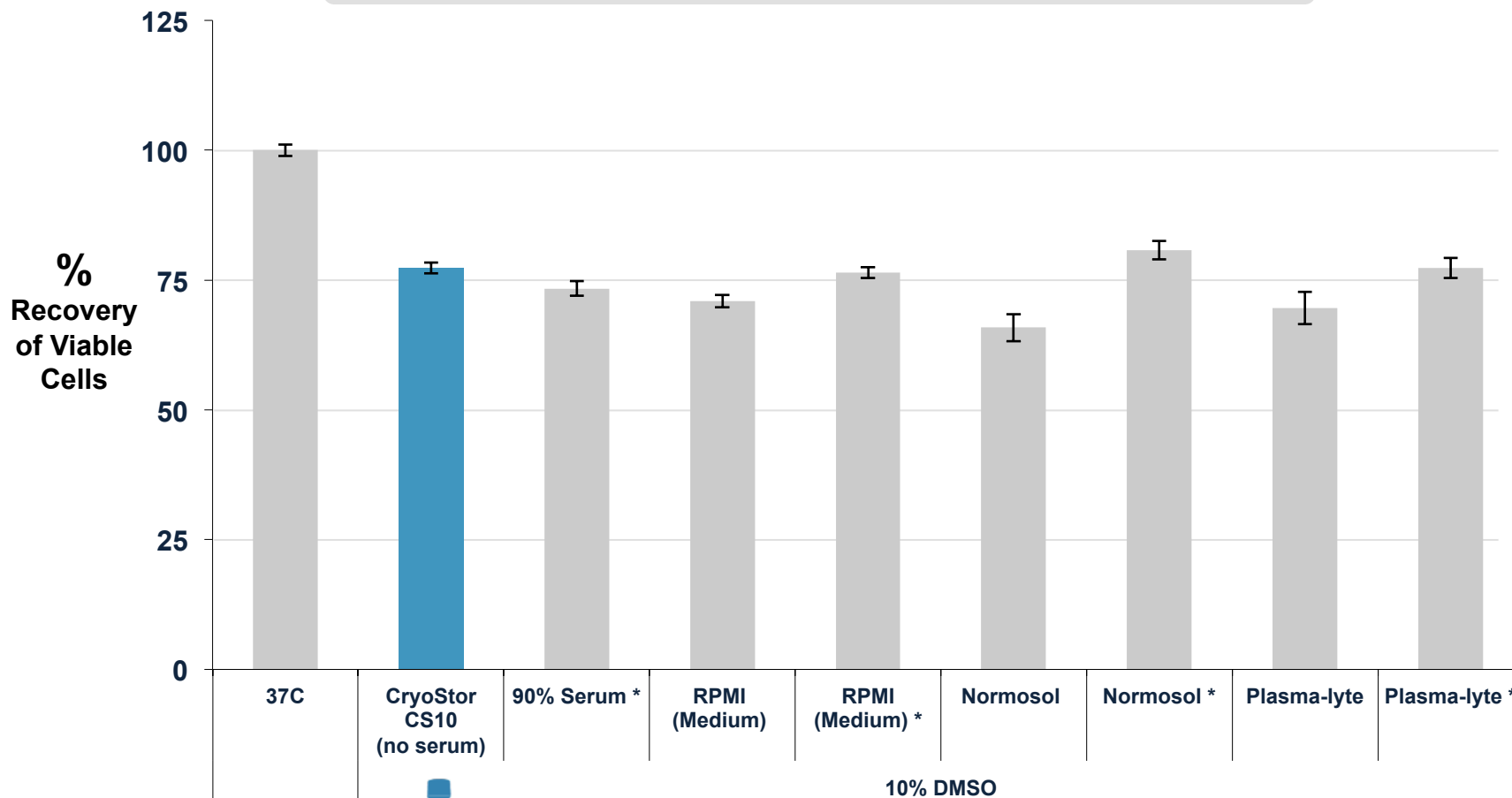
# Recovery of hMSC Differentiated Osteoblast Cells Following Cryopreservation With Serum-Free CryoStor®

Comparison to Serum Containing Home-Brew Media



# Recovery of hMSC Differentiated Osteoblast Cells Following Cryopreservation With Serum-Free CryoStor®

Comparison to Serum Containing Home-Brew Media



\* Contains serum  
 alamarBlue® stain for metabolic activity