

PRIMARY CELLS TESTED ON CCC

The Collagen Cell Carrier® (CCC) is a universal scaffold for adherent primary cells and stem cells for *in vitro* and *in vivo* use. It creates a natural environment for cell attachment, growth and differentiation in applications ranging from simple cell monolayer cultures to the reconstruction of complex 3D tissue cultures on top of the membrane.

As a universal matrix, the CCC facilitates the development of cell-based assays with authentic cell performance. Strong and biocompatible it also serves perfectly as a cell-supporting, suturable carrier for pinpointed cell implantation.

ORGAN & CELL TYPE	HUMAN	MURINE	RAT	CANINE	PORCINE	BOVINE
 Heart & vascular system						
Neonatal cardiac fibroblasts				✓ ¹		
Embryonic cardiomyocytes			✓ ²			
Neonatal cardiomyocytes			✓			
Cardiomyocytes	✓					
Embryonic ventricular myocytes			✓			
Cardiac microvascular endothelial cells	✓ ^{2, 3}					
 Eyes						
Cornea endothelial cells			✓			✓
Cornea epithelial cells	✓		✓			
Iris pigment epithelial cells						✓
Retinal pigment epithelial cells						✓
 Bone & cartilage						
Osteoblast differentiated from adipose-derived MSCs	✓ ⁴					
Chondrocytes	✓					
Chondrocytes differentiated from adipose-derived MSCs			✓ ⁵			
Meniscus cells	✓ ⁶					
 Nervous system						
Astrocytes		✓				
Fetal dopamine neuronal cells			✓			
Fetal neocortical neuronal cells			✓			
Dorsal root ganglion neuronal cells			✓			
Enteric neuronal cells	✓					
 Liver & pancreas						
Hepatocytes		✓				
Pancreatic cells		✓				
 Skin						
Keratinocytes		✓ ⁷				
Epidermal keratinocytes (hEKs)	✓ ⁸					
Melanocytes from hair follicle	✓ ⁹					
 Urogenital tract						
Urothelial cells	✓ ^{10, 11, 12}	✓			✓ ¹⁰	
 Stem cells						
Nucleus pulposus (NP) cells	✓ ¹³					
Dental pulp pluripotent-like stem cells (DPPSC)	✓ ¹⁴					
Mesenchymal stem cells (different tissues)	✓ ^{2, 3, 15, 18}		✓ ^{16, 17}		✓ ¹⁷	

Not sure how your cells will perform on the CCC? Need support with cell detachment or staining?

Share your experience with the CCC and get one unit free!

Contact us!
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LITERATURE



Heart & vascular system

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Bone & cartilage

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Skin

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Urogenital tract

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Stem cells

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- ¹⁷Araña M et al., 2014, Epicardial delivery of collagen patches with adipose-derived stem cells in rat and minipig models of chronic myocardial infarction, *Biomaterials* 35(1):143-151
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Ask us for more references and application notes!

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Share your experience
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