

## CELLvo™ ChondroMatrix

The CELLvo™ ChondroMatrix is an Extracellular Matrix (ECM) synthesized *in vitro* by human articular chondrocytes. This product is composed of proteins that were secreted and assembled by human articular chondrocytes during the production of the matrix.

The final product is cell free with only an ECM attached to the surface of the culture vessel. This cell culture substrate provides a native three-dimensional microenvironment, which can be used for rapid expansion of high quality human articular chondrocytes (HC-A).



**Product Number:**  
CELLvo™ CM-HPME-6WP  
6 well plate (sleeve of five)



**Product Number:**  
CELLvo™ CM-HPME-T75  
T-75 flask (sleeve of five)



**Product Number:**  
CELLvo™ CM-HPME-T150  
T-150 flask (sleeve of five)

**Product Use:** NOT FOR HUMAN USE. This product is for research use only. Not to be used for diagnostic or therapeutic applications.

**Presentation:** Dehydrated.

**Safety Information:** Wear appropriate protective eye wear, clothing, and gloves. Handle in accordance with established bio-safety practices.

**Storage and Stability:** Store at 2-8°C and avoid extended exposure to light.

**Rehydration:** Rehydrate using phosphate buffered saline (PBS) or media for 1 hour at 37°C prior to use (2 ml for 6wp, 15 ml for T75, and 30 ml for the T150). Wash 2X with PBS or media before seeding cells.

This product may be covered in part or in whole by US Patent #'s 8,084,023; 8,388,947; 8,961,955; 9,617,511; EP2414511B1

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## REFERENCES

Mao, Y et al. (2019) Extracellular matrix derived from chondrocytes promotes rapid expansion of human primary chondrocytes in vitro with reduced dedifferentiation. *Acta Biomaterialia* 85: 73-83.

Chen, X D et al. (2007) Extracellular matrix made by bone marrow cells facilitates expansion of marrow-derived mesenchymal progenitor cells and prevents their differentiation into osteoblasts. *J Bone Miner Res* 22: 1943-1956.

Pei, M D et al. (2012) Extracellular matrix deposited by synovium derived stem cells delays replicative senescent chondrocyte dedifferentiation and enhances redifferentiation. *J Cell Physiology* 227(5):2163-2174.