

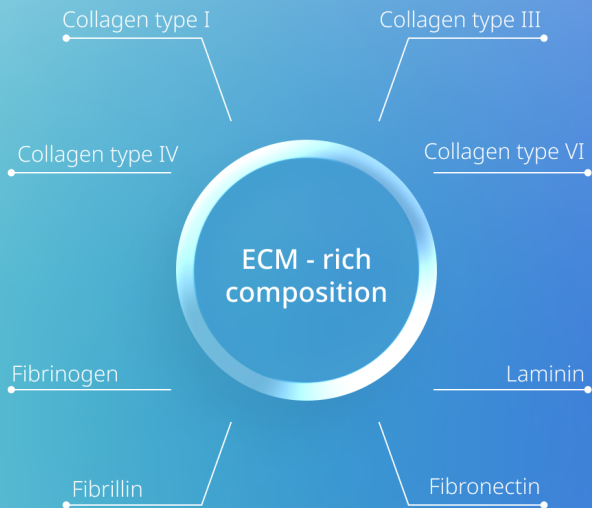
# hPCMA

## *Human Methacryloyl Placenta*

hPCMA is an innovative human placenta-derived material with tunable mechanical properties, offering a collagen-rich microenvironment for 3D cell culture that supports cell adhesion, growth, and proliferation.

*“The greatest experiments have always been the most humane”*

W. Russell e R. Burch The Principles of Humane Experimental Technique, 1959



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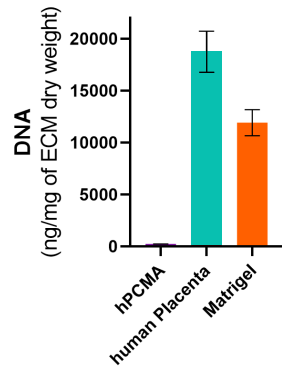
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# hPCMA

*Human Methacryloyl Placenta*

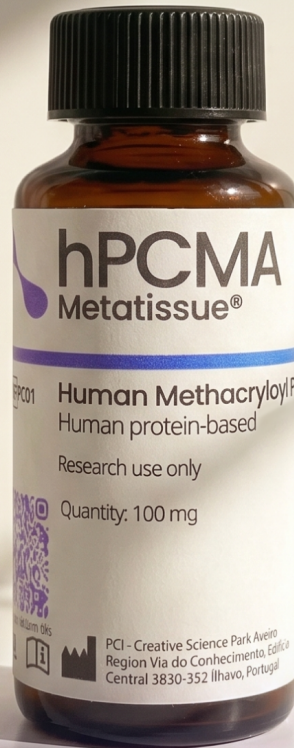
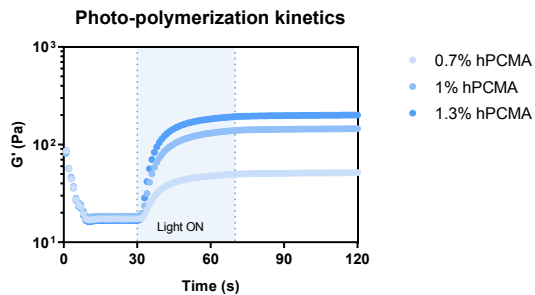
## Specifications

- > White and fibrous lyophilized material
- > Controlled degree of methacrylation
- > Supports in vitro maintenance of adherent cultured cells
- >  $\leq 400$  ng of DNA/mg of dry ECM

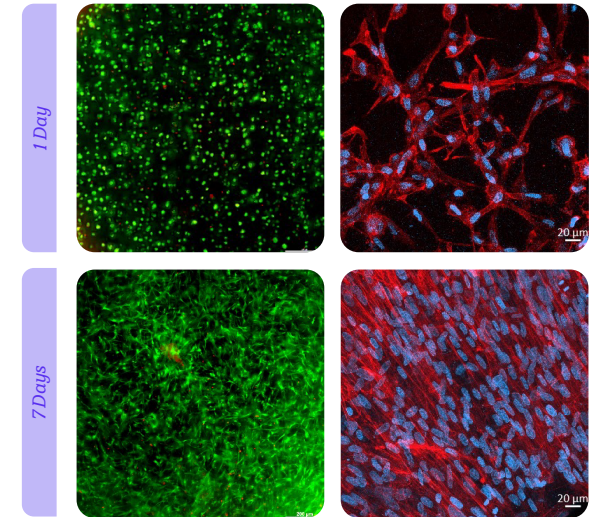


## Mechanically tunable

hPCMA hydrogels have tunable mechanical properties that can be modified by altering the biomaterial concentration in the precursor solution, allowing for the simulation of varying tissue stiffness.



## Cell viability and proliferation



Encapsulated human adipose-derived stem cells (hASCs) maintain their viability for at least 7 days and are able to proliferate inside the hydrogels.

## hASCs in hPCMA hydrogels

