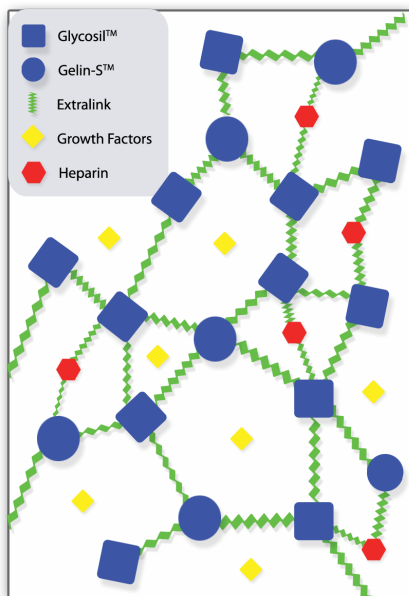


Extracel™-HP

For Slow Release of Growth Factors

Conserve your growth factors with Extracel-HP and save money! Extracel-HP allows you to eliminate growth factors from cell culture media by putting them in the Extracel-HP hydrogel, where they are immobilized and protected from proteolysis through non-covalent binding with thiol-modified heparin. The growth factors are then slowly released over a period of weeks. For applications such as **stem cell cultivation, tissue engineering and cell therapy** where targeted and controlled release of growth factors is desired, Extracel-HP is the solution to your needs. Extracel-HP has demonstrated controlled release with GFs such as basic fibroblast growth factor (bFGF), vascular endothelial growth factor (VEGF), transforming growth factor β 1 (TGF- β 1) and more.

Extracel-HP consists of a hyaluronan-based, synthetic extracellular matrix that contains immobilized, thiol-modified heparin. Gelin-S (not animal free) can be used as a positive control for cell attachment. The material is uniform, LDEV free, and ready to use in three simple steps - reconstitute, mix, and inject! Extracel-HPG will gel at room temperature to 37 °C with no low-temperature or low-pH steps in its preparation. In addition to these advantages, the researcher has complete control over gelation time (as short as twenty minutes or as long as several hours), hydrogel stiffness, and hydrogel composition.



Illustrated representation of the Extracel™ matrix

Advantages

Semi-Synthetic

Save Money

No 4 °C or Low pH Steps

User Controls Hydrogel Stiffness

Suitable for *In Vitro* and *In Vivo* Uses

Maintain Consistent Growth Factor Concentrations