



The Bio-Superior HEPgel™ Biomaterial System

Fact Sheet

Overview

Hyaluronic acid (HA), a popular biomaterial, has attributes including:

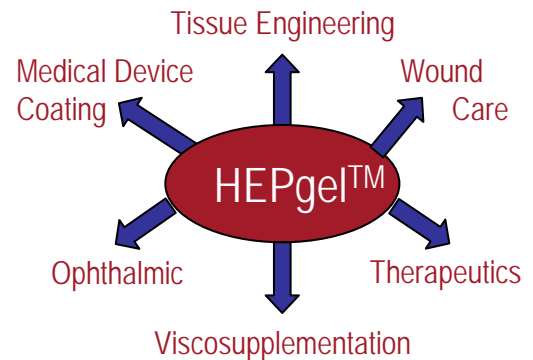
- Great water-binding capacity
- Bio-compatibility
- Quick clearance or breakdown in the body
- Bio-activity (angiogenesis and proliferation modulation, etc.)
- Many therapeutic uses have late stage or no patent protection

Comparison to HA

The HEPgel™ Biomaterial System is the process of cross-linking a naturally occurring sugar molecule, **Heparosan**, to itself to form a viscous solution, gel or particle using the same chemistries as FDA-approved HA biomaterials.

Heparosan, a sugar polymer similar to HA possesses many negative groups and is replete with hydroxyl groups.

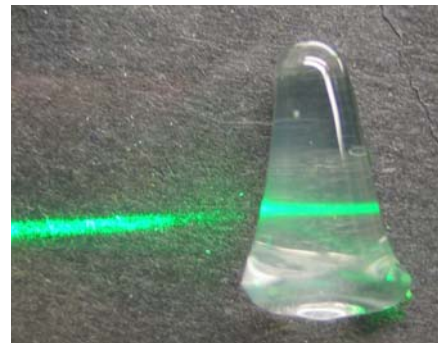
Heparosan is as soluble, water-binding (~1,000 X weight in water), bio-compatible, and non-toxic (tested at 100mg/Kg in rats) as HA.



Bio-Superior to HA

The HEPgel™ Biomaterial System is:

- Bio-inert as proteins and cells 'ignore' heparosan
- **Immune** to extracellular digesting enzymes
- **New and novel intellectual property**
US and Foreign (2 Issued and 7 Pending)



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