

# REGENERATIVE SOLUTIONS

FROM

# BioXstem

## HYLAJEL

HylaJel therapy helps contribute to overall anti-aging benefits. Derived naturally from the powerful Wharton's Jelly of the human umbilical cord, its key active components help cushion, lubricate and provide structural support, making it the perfect treatment to aid in regeneration, growth, healing and inflammation reduction.

Wharton's Jelly is a gel-like tissue that has unique characteristics of providing structural support in the body. Wharton's Jelly may be preferred over amniotic membrane or amniotic fluid in many instances because it contains a higher concentration of HMW hyaluronic acid, and growth factors; up to 50 times more. It also naturally has an abundance of extracellular vesicles, including exosomes.

### PRODUCT TRACKING

- Go to [bioxstem.com](http://bioxstem.com)
- Select "Tracking" at the top of the website
- Complete Form

### SHIPPING + STORING

- Stored in -80°C freezers and shipped on dry ice
- Keep frozen in -20°C up to 60 days or -80°C conditions for two years or expiration date, whichever occurs first.



## HYLAJEL

HIGH QUALITY PRODUCTS

20% of every lot is sent for sterility and endotoxin testing by a 3rd party laboratory.

BDNF	820.0	Brain-derived neurotrophic factor	IL-1a	110.0	Interleukin 1 alpha
bFGF	5,093.0	basic fibroblast growth factor	IL-1β	22.0	Interleukin 1 beta
BMP-4	141.0	Bone morphogenetic protein-4	IL-1ra	48.0	Interleukin 1 receptor antagonist
BMP-5	20.0	Bone morphogenetic protein-5	IL-2	118.0	Interleukin 2
BMP-7	0.3	Bone morphogenetic protein-7	IL-4	40.0	Interleukin 4
b-NGF	14.0	Nerve growth factor	IL-5	110.0	Interleukin 5
EGF	181.0	Epidermal growth factor	IL-6	4,331.0	Interleukin 6
EGFR	6,617.0	Epidermal growth factor receptor	IL-6R	198.0	Interleukin 6 receptor
EG-VEGF	310.0	Endocrine gland-derived VEGF	IL-7	184.0	Interleukin 7
FGF-4	61.0	Fibroblast growth factor-4	IL-8	402.0	Interleukin 8
FGF-7	3.0	Fibroblast growth factor-7	IL-10	102.0	Interleukin 10
GDF-15	1,787.0	Growth/differentiation factor-15	IL-11	88.0	Interleukin 11
GDNF	43.0	Glial cell-derived neurotrophic factor	IL-12p40	66.0	Interleukin 12p40
GH	245.0	Growth hormone	IL-12p70	42.0	Interleukin 12p70
HB-EGF	213.0	Heparin-binding EGF-like growth factor	IL-13	147.0	Interleukin 13
HGF	3,488.0	Hepatocyte growth factor	IL-15	116.0	Interleukin 15
IGFBP-1	164.0	IGF binding protein-1	IL-16	103.0	Interleukin 16
IGFBP-2	221.0	IGF binding protein-2	IL-17	88.0	Interleukin 17
IGFBP-3	94.0	IGF binding protein-3	MCP-1	430.4	Monocyte chemotactic protein-1
IGFBP-4	68.0	IGF binding protein-4	MCSF	596.1	Macrophage colony-stimulating factor
IGFBP-6	339.0	IGF binding protein-6	MIG	19.6	Mitogen-inducible gene 6
IGF-1	148.0	Insulin-like growth factor 1	MIP-1a	106.8	Macrophage inflammatory protein 1 alpha
Insulin	36.0	Insulin	MIP-1β	2,736.0	Macrophage inflammatory protein 1 beta
MCSF R	25.0	Macrophage colony-stimulating factor	MIP-1d	58.0	Macrophage inflammatory protein 1 delta
NGF R	30.0	Nerve growth factor receptor	PDGF-BB	1,653.0	Platelet-Derived Growth Factor
NT-3	1.0	Neurotrophin-3	RANTES	312.7	RANTES/CCL5
NT-4	205.0	Neurotrophin-4	TIMP-1	14,240.0	Tissue inhibitor of metalloprotease-1
OPG	204.0	Osteoprotegerin	TIMP-2	17,135.0	Tissue inhibitor of metalloprotease-2
PDGF-AA	1,163.0	Platelet-Derived Growth Factor	TNF α	125.0	Tumor necrosis factor alpha
PIGF	19.0	Placental Growth Factor	TNF β	160.0	Tumor necrosis factor beta
SCF	43.0	Stem Cell Factor	TNF RI	1,500.0	Tumor necrosis factor receptor I
SCF R	6.0	Stem Cell Factor Receptor	TNF RII	80.1	Tumor necrosis factor receptor II
TGF α	21.0	Transforming growth factor alpha			
TGF β1	320.0	Transforming growth factor beta 1			
TGF β3	4.0	Transforming growth factor beta 3			
VEGF	116.0	Vascular endothelial growth factor			
VEGF R2	70.0	Vascular endothelial growth factor receptor 2			
VEGF R3	22.0	Vascular endothelial growth factor receptor 3			
BLC	82.0	B lymphocyte chemokine/CXCL13			
Eotaxin	33.0	Eotaxin			
Eotaxin-2	36.0	Eotaxin-2			
G-CSF	138.0	Granulocyte-colony stimulating factor			
GM-CSF	134.0	Granulocyte-macrophage CSF			
I-309	34.0	I-309			

**HYLAJEL is available  
in a 4-Pack Only**

**4 x 0.5cc vials - (2cc Total)**

**TO ORDER PRODUCTS:**

**CONTACT YOUR BIOXSTEM REPRESENTATIVE**