

PRODUCT PORTFOLIO



AmnioCyte™ is processed to preserve the cytokines, growth factors and proteins in amniotic fluid for homologous use.



AmnioCyte Plus™ is processed to preserve cytokines, growth factors and scaffolding proteins in amniotic membrane for homologous use.



PolyCyte™ is processed to preserve cytokines, growth factors, proteins, mesenchymal stem cells and structural integrity of Wharton's Jelly for homologous use.



CoreCyte™ is processed to preserve cytokines, growth factors, proteins, mesenchymal stem cells and structural integrity of Wharton's Jelly for homologous use and is cryogenically frozen.

For more information, please visit:
www.NewEnglandBiologics.com



Innovative Development

New England Biologics's innovative Human Cell and Tissue products are processed in our FDA registered lab. Our minimally manipulated tissue products are prepared utilizing proprietary extraction methods that reduce the loss of important cytokines, growth factors, proteins and biomolecules, and are intended for homologous use.

Quality Assurance

All of New England Biologics's Human Cell and Tissue products are processed from donated human tissue from full term deliveries. Comprehensive medical and social histories of the donors are obtained and tissues are procured, processed, and tested in accordance with standards established by FDA requirements to minimize potential risks of disease transmission to recipients. Infectious disease testing is performed at a certified laboratory in accordance with the Clinical Laboratory Improvement Amendments of 1988 (CLIA) and 42 CFR part 493.



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New England BIOLOGICS

Revolutionary • Regenerative • Therapeutic



**REGENERATIVE MEDICINE:
DEMYSTIFYING PRODUCTS**



www.NewEnglandBiologics.com

Demystifying Regenerative Medicine Tissue and Products

One of the most difficult aspects of regenerative medicine is navigating the landscape of tissue sources for treatment. What products are derived from those tissues? What do those products contain? What don't those products contain?

Revolutionary · Regenerative · Therapeutic

Working hand in hand with researchers from across the globe we are on the path to help rethink and reshape the future of regenerative medicine



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Tissue Source		Pharma	Peripheral Blood	Placenta			Umbilical Cord		Bone Marrow	Adipose	
Products		Steroid, NSAID, Synthetic HA...	Platelet Rich Plasma	Platelet Rich Plasma - Heated	Amniotic Fluid	Amniotic Matrix	Amniotic Membrane	Umbilical Cord Blood	Umbilical Cord Matrix	Bone Marrow Aspirate	Lipoaspirate
Characteristics	Autologous (from you)		✓	✓						✓	✓
	Allogeneic (from others)				✓	✓	✓	✓	✓		
	General Cytokines	✓	✓	✓	✓✓	✓	✓	✓	✓✓✓	✓	✓
	Growth Factor Cytokines		✓✓✓	✓✓✓	✓	✓✓	✓	✓	✓✓✓	✓✓	✓
	Scaffolding Cytokines					✓✓✓	✓✓✓		✓		
	Homeostatic Cytokines		✓✓✓	✓✓✓	✓✓	✓✓✓	✓	✓	✓✓✓	✓✓✓	✓✓✓
	Mesenchymal Stem Cells (MSC)								✓	✓	✓
	Viable MSCs Counts								✓✓✓	✓	✓✓
	Biologically Young Source				✓	✓	✓	✓	✓		

Platelet Rich Plasma

PRP

- Blood is drawn from the patient and is spun through a centrifuge to separate the platelets and their growth factors into a concentrated serum¹
- This concentrated serum of platelets is then administered to the patient¹

PRP - Heated

Heat Shock

- Blood is drawn from the patient and incubated at a slightly elevated temperature for 24 hours
- After 24 hours the blood is spun through the centrifuge and the middle layer is extracted administered to the patient²

Umbilical Cord Blood

HSC

- Blood is extracted from the umbilical cord and is processed to isolate hematopoietic stem cells (HSC) and mesenchymal stem cells.³ (MSC concentrations are therapeutically insignificant⁷)
- The processed cord blood is then administered to the patient

Umbilical Cord Matrix

Wharton's Jelly MSC

- The Wharton's Jelly of the umbilical cord is processed to preserve cytokines, growth factors, proteins, mesenchymal stem cells and structural matrix
- This human cell and tissue allograft is then administered to the patient.

Bone Marrow Aspirate

Bone Marrow MSC

- Bone marrow is extracted from the iliac crest and then spun down through a specially designed tube and centrifuge that will isolate the MSCs⁵
- This autologous serum is then administered to the patient

Adipose Extraction

Lipoaspirate MSC

- Fat tissue is removed through a mini liposuction procedure. The adipose is then placed into a processing kit and spun down through a centrifuge to isolate MSCs⁶
- This cell pellet is then suspended and administered to the patient

*New England Biologics is a distributor for Predictive Biotech. These statements are not reviewed by the FDA. We give no warranty of products that are manufactured and sold by predictive biotech with details.