# PREDICTIVE OTF Revolutionary.Regenerative.Therapeutic

# **CoreCyte<sup>™</sup>**



## CoreCyte<sup>™</sup> Wharton's Jelly Allograft

CoreCyte<sup>™</sup> is a minimally manipulated human tissue allograft derived from the Wharton's jelly of the umbilical cord. CoreCyte<sup>™</sup> is processed to preserve the integrity of Wharton's jelly for homologous use and cryogenically preserved.

# **Innovative Development**

Predictive Biotech's innovative human cell and tissue products are processed in our FDA registered lab. Our minimally manipulated tissue products are prepared utilizing proprietary production methods that reduce the loss of important proteins, cytokines and growth factors.

## **Quality Assurance**

CoreCyte<sup>™</sup> is 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.

#### FDA Regulatory Compliance

derived from the Wharton's jelly of the umbilical cord. The membrane is broken up into contain live cells, Predictive Biotech does not claim that CoreCyte™ is dependent on the mesenchymal stem cells, cytokines, chemokines and growth factors. The structural and therefore is regulated under 21 CFR 1271 and Section 361 of the PHS Act. CoreCyte®

# **Key Characteristics** of Wharton's Jelly

Wharton's jelly is a gelatinous substance in the umbilical cord that provides cushioning and support to the umbilical vein and arteries. The cushioning and protective elements from Wharton's ielly consist of a network of proteins, pericytes, mesenchymal stem cells, cytokines, chemokines and growth factors.

# Analysis of Wharton's Jelly



440+ Cytokines Interleukins Growth Factors Chemokines



Cells per cm of **Umbilical Cord:** MSC: 240,000

#### **Extracellular Matrix** Composition:

Collagen 3.6% Glycoprotein 0.3% Hylauronin 0.31%

\*All % wet weight

# **Key Cytokines Present** in Wharton's Jelly



# **Growth Factor Cytokines**

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Bone Morphogenic Protein - 7	
Complement Component 5a	$\checkmark$
Fibroblast Growth Factor	
Platelet Derived Growth Factor - AA	$\checkmark$
Fhrombospondin - 2	$\checkmark$

# Scaffolding Cytokines

Adhesion G Protein	$\checkmark$
Collagen 1, 2, 3	
Elastin	
Fibronectin	
Iyaluronic Acid	

## **Homeostatic Cytokines**

Cystatin - B	$\checkmark$
Galectin - 9	$\checkmark$
Granulysin	$\checkmark$
Lipocalin - 2	$\checkmark$
Intracellular Adhesion Molecule 1	$\checkmark$

Number of check marks reflect relative factor amounts as compared to other Predictive Biotech products. All data represented on this grid is informed by either or all available literature. external validation and internal testing. Empty data fields indicate quantities either found in trace amounts, or quantities not specified in literature. Citations and references on file with Predictive Biotech