



CoreCyte™ is a minimally manipulated human tissue allograft derived from the Wharton's Jelly of the umbilical cord. CoreCyte™ is processed to preserve the structural 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 extraction methods that reduce the loss of important structural proteins, cytokines and growth factors.

### Quality Assurance

CoreCyte™ 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

CoreCyte™ is regulated as a human cell and tissue product (HCT/P) under 21 CFR Part 1271 and Section 361 of the Public Health Service Act. CoreCyte™ is intended for homologous use.

## Key Characteristics of Structural Wharton's Jelly

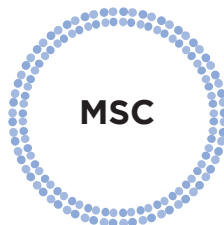
Wharton's jelly is a gelatinous substance in the umbilical cord that provides cushioning and support to the umbilical vein and arteries. The cushioning and protective elements from Wharton's jelly consist of a network of structural proteins, pericytes, mesenchymal stem cells, cytokines, chemokines and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

## Analysis of Structural Wharton's Jelly



### 440+ Cytokines

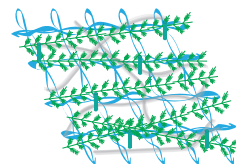
Interleukins  
Growth Factors  
Chemokines



MSC

### Cells per cm of Umbilical Cord:

MSC<sup>1</sup>: 240,000



### Extracellular Matrix Composition:

Collagen 3.6%  
Glycoprotein 0.3%  
Hyaluronin 0.31%

\*All % wet weight

## Key Cytokines Present in Structural Wharton's Jelly

### General Cytokines

	pg/ml
Fetuin-A	345,099
Interleukin 37	357
Macrophage Colony	4,120
Serpin A4	6,573
Syndecan - 4	7.5

### Growth Factor Cytokines

Bone Morphogenic Protein - 7	
Complement Component 5a	
Fibroblast Growth Factor	
Platelet Derived Growth Factor	
Thrombospondin - 2	149

### Scaffolding Cytokines

Adhesion G Protein	650
Collagen 1,2,3	
Elastin	
Fibronectin	
Hyaluronic Acid	

### Homeostatic Cytokines

Cystatin - B	1,164
Galectin - 9	354
Granulysin	30
Lipocalin - 2	666
Syndecan - 4	7.5