

● Definitions

Wharton's Jelly:	Wharton's jelly, a gelatinous connective tissue contained in the umbilical cord, is abundant in mesenchymal stem cells (MSCs).
Stored cell number:	The total number of mesenchymal stem cells that are isolated from the umbilical cord Wharton's jelly , and cryo-preserved after cell expansion.
Storage method:	Mesenchymal stem cell are stored in cryo-vials.
Cell viability:	The percentage of viable cells.
Microorganism testing result:	Positive represents microorganism contamination, and therefore unfit for storage. Negative represents microorganism contamination has not been detected.
Endotoxin:	A toxin associated with outer membranes of certain gram-negative bacteria. Endotoxins are released when the cells are disrupted, and a large quantity can cause adverse effects. US Food and Drug Administration recommends that for drug products, the limit for amount of endotoxin is < 5EU/kg.
Mycoplasma:	A type of bacteria that lacks cell wall. Positive represent contamination. Negative represents contamination has not been detected.
Cell surface antigen markers:	Based on literature references, mesenchymal stem cells express surface antigens such as CD105, CD44, CD29, CD90, CD73, CD13. But does not express CD45, CD14, CD34, CD31, CD19, HLA-DR. (+) represents that the expression is detected, (-) represents that the expression is not detected.

● References

1. Adult mesenchymal stem cells : Characterization, differentiation, and application in cell and gene therapy. Baksh D et al., 2004.
 2. Multilineage Potential of Adult Human Mesenchymal stem cells. Pittenger MF et al., 1999.
 3. Regenerative and immunomodulatory potential of mesenchymal stem cells. Krampera M et al., 2006.
 4. Minimal criteria for defining multipotent mesenchymal stromal cells. The International Society for Cellular Therapy position statement. Cytotherapy. 2006;8(4):315-7.
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