

- Certificate of Analysis (CoA) -

Product: Human Umbilical cord Derived Mesenchymal Stem Cells	Work Order number : WO 03 Batch No: 0001
Product Release Date: 4 th May 2009	Page: 1 / 1

No.	PARAMETER	SPECIFICATION	RESULT
1.	Morphology of cells	Adherent cells having fibroblast like morphology	Complies
2.	Description	Clear colourless solution	Complies
3.	Physical appearance	Approx.2ml in frozen state	Complies
5.	Cell Count	Approx. 5 x10 ⁶ / ml	5x10 ⁶ / ml
6.	% Cell viability (By Flow cytometry)	> 50%	> 98%
7.	% Cell purity (By Flow cytometry)	>90%	> 99%
8.	Endotoxin content	<3.0 EU/ml	<0.125 EU/ml
9.	Sterility	Sterile	Complies
10.	HIV-1 &2 antibody	Negative	Complies
11.	HCV antibody	Negative	Complies
12.	HbsAg antibody	Negative	Complies
13.	CMV IgG antibody	Negative	Complies
14.	HBV antibody	Negative	Complies
15.	Syphilis antibody	Negative	Complies

- The cells are derived from raw material that is certified negative for transfusion transmissible markers.
- No animal-derived material used in manufacture or present in final product.
- GLP certified laboratory process. Cert: XXXXX
- The sample is transported in dry ice at - 50^oC to - 80^oC.

Date: May 2009