Lonza

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CERTIFICATE OF ANALYSIS

Product Code:	PT-5025	Lot Number:	0000361427
Product:	Human Dental Pulp Stem Cells 1M	Manufacture Date:	21-Mar-2013

TEST (Method)	SPECIFICA ⁻	SPECIFICATIONS			
· · ·	Min.	Max.	Results		
Tissue Acquisition Number	***	***	25885		
DONOR CHARACTERISTICS					
Age	***	***	16 Y		
Sex	***	***	MALE		
Race	***	***	UNKNOWN		
VIRUS TESTING					
HIV Test	***	***	Not Detected		
HBV Test	***	***	Not Detected		
HCV Test	***	***	Not Detected		
MICROBIAL TESTING					
Sterility Test	***	***	Negative		
Mycoplasma	***	***	Negative		
CELL PERFORMANCE TESTING					
Viability	>=70%	***	86 %		
Cell Count (cells/vial)	>=1x10E+6	***	1470000		
Total Population Doublings	>=10	***	13		
Seeding Efficiency	>=25%	999	92 %		
CD34, CD45, & CD133	***	<=10%	< 10.0 %		
CD105, CD166, CD29, CD90, & CD73	>=90%	***	> 90.0 %		

These cells were isolated from donated human tissue after obtaining permission for research use by informed consent or legal authorization. This product is for research use only. Details concerning the use of our cell and media products can be downloaded from our website at www.lonza.com/cell-protocols.

This lot has been reviewed by Quality Assurance in compliance with requirements of Lonza's Quality System. This document was generated from a validated Part 11-compliant electronic system and thus handwritten signatures are not required.