

Cell Line: RC-9

Produced - December 2009

Cell Type

Human Embryonic

Grade

Clinical

Source type

Cryopreserved

Characteristics

Classification	Test	Purpose	Result
Donor Screening	HIV 1 + 2 Hepatitis B Hepatitis C	Donor screening for adventitious agents	Negative
Identity	Microsatellite PCR (mPCR)	DNA Profiling to give cell line its signature, gender/species	Performed
Phenotype	Immunocytochemistry	To assess levels of staining for the pluripotency markers Oct 4 and Nanog	To be performed prior to release for evaluation
	Alkaline Phosphatase (AP) Staining	Visual assessment of levels of undifferentiated cells within the line	To be performed prior to release for evaluation
	Flow Cytometry	Assess antigen levels & cell surface markers commonly associated with hESC	3/4: 91.4% Tra 1-60: 92.4% SSEA-4: 95% SSEA-1: 2.1%
	Gene Expression Array	Gene-level expression of pluripotency and differentiation markers using Taqman Low Density Arrays (TLDA)	To be performed on Master Cell Bank
Genotype	Blood Group Genotyping (DNA Analysis)	To establish blood group of the line	BB
	Karyology (G-Banding)	Confirmation of normal ploidy by G-banding	46XY
Microbiology and Virology	Mycoplasma Ph. Eur./ Ph. US	Mycoplasma testing to EP/USP guidelines	Negative
	Viral Screening by qPCR	Testing for absence of HIV 1 + 2, HBV, NCV, EBV, hCMV, HTLV 1/2	To be performed on Master Cell Bank
	Endotoxin	Screening for Endotoxin levels	0.54 EU/mL
	Sterility Ph. Eur./ Ph. US	Sterility testing to EP/USP guidelines	To be performed prior to release for evaluation
Pluripotency	Teratoma	To establish the capability of the line to form the 3 germ layers in vivo	To be performed on Master Cell Bank
	Embryoid Bodies	To establish the capability of the line to form the 3 germ layers in vitro	To be performed prior to release for evaluation
Morphology	Photography	To capture a visual record of the line	Normal