

Cell Line:RC-5

Produced - January 2008

Cell Type	Human Embryonic
Grade	Research
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	Tra 1-60: 94.8% Tra 1-81: 93.6% SSEA-4: 94.8% SSEA-1: 37.3%
Genotype	Blood Group Genotyping (DNA Analysis)	To establish blood group of the line	A01
	Karyology (G-Banding)	Confirmation of normal ploidy by G-banding	46XX *
Microbiology and Virology	Mycoplasma Ph. Eur./ Ph. US	Mycoplasma testing to EP/USP guidelines	Negative
	Endotoxin	Screening for Endotoxin levels	1.82 EU/mL
Morphology	Photography	To capture a visual record of the line	Normal

* RC-5 carries the common DF508 mutation (heterozygous) on the CFTR (cystic fibrosis trans-membrane regulator) gene which is directly associated with the disease cystic fibrosis.