Certificate of Analysis

MDC MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE IN THE HELMHOLTZ ASSOCIATION

CELL LINE NAME	**BIHi268-A-18**	hPSCreg Link: https://hpscreg.eu/user/cellline/edit/BIHi268-A-18	
DONOR GENDER/AGE:	☐ Male ☒ Female ☐ unknown Age:		
DISEASE PHENOTYPE / GENETIC VARIANT			
BANK	Master Bank, ID . , Passage 40 …., Freezing Date: 14.04.2021		
FREEZING METHOD	Bambamker		
CULTURE PLATFORM	Wählen Sie ein Element aus.		
	Medium: E8	Coating: Geltrex	
REPROGRAMMING	Reprogramming Method Vector details (e.g. Kit, Pub, AddgeneNr):		
GENETIC MODIFICATION	☒ yes ☐ no Targeting Vector: ☐TALEN, ☒CRISPR, ☐ZNF, Addgene: ☐ Isogenic control/SNP ☒ Gene knock-out ☐ Transgene knock-in		
	Parental/isogenic cell line	BIHi043-A	
	Target gene/Transgene/Locus (het/hom?)	SORL1	
	Validation (e.g. PCR, sequencing)	Sequencing	

TEST DESCRIPTION	Test Method	Test Specification	Result
STERILITY (viral pathogens)	☐ Blood screening Donor ☐ PCR (primary cells) ☒ PCR (iPS clone/subclone)	HBV, HCV, HIV negative	not done
STERILITY (mycoplasma)	Test Method	No contamination detected	Pass
STERILITY (bacteria/ yeast/ fungi)	Culture for 7 days in antibiotic free medium	No contamination detected	Pass
REPROGRAMMING VECTORE CLEARANCE	☐ PCR ☐ AB staining ☐ Confirmed in parental line	Vector not present	not done
VIABILITY / MORPHOLOGY	Phase contrast microscopy of cells at 24, 48, and 72 hrs	Growth rate and confluency typical of hPSCs	Pass
UNDIFFERENTIATED PHENOTYPE	Markers for undifferentiated hPSCs ☐ IF-Staining ☒FACS ☐other	Expression of at least three pluripotency markers detected	Pass
	☐ Pluritest	Pluripotency and Novelty Scores above threshold	not done
PLURIPOTENT DIFFERENTIATION POTENTIAL	3-germ layer differentiation: ☐ spontaneous (e.g. EB formation)	Detection of markers for cells from the three germ layers	not done
	☐ directed differentiation	Successful differentiation to cells of all three germ layers	Result
	☐ Teratoma formation	Observation of tissues derived from the three germ layers	Result
KARYOTYPE	PerkinElmer KaryoLite BoBs™	Karyotype matches Donor	Result

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	Virtual karyotyping using Illumina OMNI-EXPRESS-8v1.6 Chip	No significant changes compared to the primary cells detected	Pass
	G-Banding	Karyotype matches Donor	Result
IDENTITY (STR ANALYSIS)	Promega GenePrint® 10 System	Identical to profile of primary cells	Result

date / signature: 16-02-2022 /Narasimha Telugu