Certificate of Analysis

CELL LINE NAME	**BIHi268-A-19**	hPSCreg Link: https://hpscreg.eu/cell-line/BIHi268-A-19
ALTERNATIVE NAME	BIHi043-A SORL Cl F2	
DONOR GENDER/AGE:	☐ Male ☒ Female ☐ unknown Age:	
DISEASE PHENOTYPE / GENETIC VARIANT		
BANK	Master Bank, ID 01, Passage 40, Freezing Date: 14.04.2021	
FREEZING METHOD	BamBanker	
CULTURE PLATFORM	Feeder Independent	
	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?)	Homozygous
	Validation (e.g. PCR, sequencing)	PCR and 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)	Minerva Venor®GeM qOneStep	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	not done
	☐ Teratoma formation	Observation of tissues derived from the three germ layers	not done

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KARYOTYPE	Virtual karyotyping using Illumina OMNI-EXPRESS-8v1.6 Chip	No major structural aberration detected (compared to Parental line)	Pass
	Virtual karyotyping using Illumina OMNI-EXPRESS-8v1.6 Chip	Karyotype matches *Parental Cell Line*	Pass
	G-Banding	No major structural aberration detected	not done
IDENTITY (STR ANALYSIS)	Promega GenePrint® 10 System	Was analyzed	Pass
		Identical to profile of primary cells	Pass
REFERENCE	*hpSCreg; cell transfer sheet, publication*		

Date: 31.01.2022 signature: Maren Wendt