

CEDARS-SINAI®

BOARD OF GOVERNORS REGENERATIVE MEDICINE INSTITUTE

iPSC Line: _____

Cedars-Sinai RMI Induced Pluripotent Stem Cell (iPSC) Core Certificate of Analysis (COA)

Cell Line Name	
CS Vial ID #(s)	
Date Vialed	
Passage Number	

The following testing specifications have been met for the specified cell line:

Test Description	Test Specification R			
Mycoplasma	No contamination detected			
Alkaline Phosphatase Staining	Positive AP staining			
Karyotype by G-Banding	Normal Karyotype			
Pluripotency				
Illumina gene-chip expression and bioinformatics assay (<u>PluriTest</u>)	Pluripotency score \ge 20 and novelty score \le 1.6			
Immunocytochemistry (IF-IC)	OCT3/4, NANOG, SOX2, TRA-1-60, TRA-1-81, SSEA4			
<u>TaqMan[®] hPSC Scorecard™ Assay</u>	Confirm appropriate expression of self-renewal factors			
Differentiation				
EB Formation	Successful Embryoid Body (EB) formation and trilineage potential after 14 days			
<u>TaqMan® hPSC Scorecard™ Assay</u>	Confirm tri-lineage differentiation potential Endoderm, Ectoderm and Mesoderm			
Plasmid Integration				
Genomic DNA PCR	Confirm lack of exogenous plasmid presence			
Parent Cell Line Lineage Determinat	ion			
<u>TCRB + TCRG T-Cell Clonality Assay</u> (Blood derived cell lines only)	Confirm presence or absence of clonal T-cell receptor beta chain and gamma chain gene rearrangements in iPSCs			
Cell Line Authentication	·			
STR Analysis	Confirm identity matching score is above 80%			

DHRUV SAREEN, Ph.D CORE DIRECTOR



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CONTACT INFORMATION:	
Core Director:	Institution:
Dhruv Sareen, Ph.D.	Cedars-Sinai RMI Induced Pluripotent Stem Cell Core
Phone Number:	Address:
(310) 423-7074	8700 Beverly Blvd.
	AHSP 8500
Email Address:	Los Angeles, CA 90048
iPSCCore@cshs.org	USA

PARENT LINE IDENTIFICATION AND INFORMATION:

Male	Female
	Male

REPROGRAMMING INFORMATION:

iPSC Line Name:							
Vial ID(s):							
Starting Cell Type:	PBMC	Fibro	blast	Other:			
Reprogramming Method:	Episomal	Senda	ai Virus	Other:			
Reprogramming Factors:	Oct3/4	Sox2	KLF4	L-Myc	shp53	Lin28	
Other:							
CULTURING INFORMATION: MEDIUM:							
Growth Medium:							
Company:							
Catalog #:							



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SUBSTRATE:

Substrate Specification:	
Company:	
Catalog #:	
Coating Concentration:	

PASSAGING METHOD:

Method:

Passaging Frequency:

Average Split Ratio:

Cell Line Preferred Method:

Rate of Differentiation:

Freezing Media:

Recovery Media:

CHARACTERIZATION OF UNDIFFERENTIATED PLURIPOTENT CELL LINE:

G-BAND KARYOTYPE:

Performed By:				
Passage Number:				
Karyotyping Analysis & Results:				
Interpretation:				
Comments:				
PLURITEST:				
Final Result:	Pass	Fail	Further Evaluate	TBD
Pluripotency Score:				
Novelty Score:				

STEMPRO EZPassage ToolVersene (EDTA)ReLeSR7 days7 days7 days1:61:91:6

___ High (≥50%)

Moderate (30-40%)

__ Low (≤20%)



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IMMUNOCYTOCHEMISTRY:

AP	SSEA-4	Tra-1-60	Tra-1-81	Nanog	Oct4	Sox2

Pluripotency Marker:

PLASMID INTEGRATION ANALYSIS:

Absence of plasmid integration confirmed by gDNA PCR:

EBNA Negative	EBNA Positive	TBD

Result:

Passage #:

CHARACTERIZATION OF DIFFERENTIATION POTENTIAL:

This cell line has been assessed for differentiation potential by:

___ 14 Day Embryoid Body Formation ___ TaqMan® hPSC Scorecard™ Assay

___ PCR

hPSC SCORECARD DATA ANALYSIS:

	Self-Renewal	Endoderm	Ectoderm	Mesoderm
iPSC (Day 0):				
Score:				
EBs (Day 14):				
Score:				
Comments:				

PARENT CELL LINE LINEAGE DETERMINATION:

(Blood derived cell lines only)

	TCR	-αβ	TCR	-γδ
T-Cell Clonality Assay:	Positive	Negative	Positive	Negative
Final Result:		Non T-Ce	ell Derived	TBD



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CELL LINE AUTHENTICATION:

Parent Cell Line:

AMEL	CSF1PO	D13S317	D16S539	D5S818	D7S820	TH01	ΤΡΟΧ	vWA

iPSC Line:

AMEL	CSF1PO	D13S317	D16S539	D5S818	D7S820	TH01	ΤΡΟΧ	vWA

% Identity Match:

IDEXX IBR #(s):

ADDITIONAL INFORMATION:





