

Thaw and Culture Details

Cell Line Name	JFHZ6
WiCell Lot Number	WB66583
Provider	Jain Foundation
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: TeSR™-E8™
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p8 These cells were cultured for 7 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	05-September-2017
Vial Label	JFHZ6 p8 WB66583
Biosafety and Use Information	Appropriate biosafety precautions should be followed when working with these cells. The end user is responsible for ensuring that the cells are handled and stored in an appropriate manner. WiCell is not responsible for damages or injuries that may result from the use of these cells. Cells distributed by WiCell are intended for research purposes only and are not intended for use in humans.

Testing Performed by WiCell

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Test Description	Test Provider	Test Method	Test Specification	Result				
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	Pass				
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and recoverable attachment after passage	Pass				
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines profile	Pass				
Sterility	Steris	ST/07	Negative	Pass				
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass				



Testing Reported by Provider

This testing was performed prior to banking unless otherwise specified.

Test Description	Method	Result			
Genetic Analysis	Karyotype by G-Banding	Normal Karyotype			
Pluripotency	Multiplex RT-PCR to quantify endogenous expression of 7 genes. Scores generated from the analysis predict probability samples are iPSC-like.	Passing sample score ≥0.9			
Mycoplasma	Commercially available mycoplasma detection kit.	Negative			
Human Virus HIV I/II CPT Code 87389; detects both antigen		Donor samples tested negative for the following human viruses.			
Testing and antibodies for HIV I and HIV II.		HIV I			
HBV CPT Code 87340; detects Hepatitis B		HIV II			
3.		HBV			
HCV CPT Code 86803; Immunoassay detects		HCV			
	Hepatitis C antibody.				
Identity	Multiplex STR analysis of 9 commonly used alleles.	Match of iPS cell line to incoming donor material.			

Approval Date	Quality Assurance Approval			
12-October-2017	11/16/2017 X JKG NG Quality Assurance Signed by Gay, Jenna			



Chromosome Analysis Report: 068098

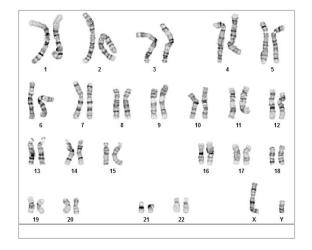
Date Reported: Thursday, October 05, 2017

Cell Line: JFHZ6-WB66583 12911

Passage#: 8

Date of Sample: 9/26/2017 Specimen: Human IPSC

Results: 46,XY



Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator:

Cell: 3

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4 Band Resolution: 450 - 500

Interpretation:

This is a normal karyotype. No clonal abnormalities were detected at the stated band level of resolution.

Completed by:

Reviewed and Interpreted by:

A signed copy of this report is available upon request.

Date:_____ Sent By:____ Sent To:_____ QC Review By:____

Limitations: This assay allows for microscopic visualization of numerical and structural chromosome abnormalities. The size of structural abnormality that can be detected

is 33-10Mb, dependent upon the G-band resolution obtained from this specimen. For the purposes of this report, band level is defined as the number of G-bands per haploid genome. It is documented here as "band level", i.e., the range of bands determined from the four karyograms in this assay. Detection of heterogeneity of clonal cell populations in this specimen (i.e.,mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

This assay was conducted solely for listed investigator/institution. The results may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The results of this assay are for research use only. If the results of this assay are to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.

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Short Tandem Repeat Analysis

WiCell®
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(888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

Sample Report: 12911-STR

Sample Name on Tube: 12911-STR

 $72.7 \text{ ng/}\mu\text{L}$, (A260/280=1.78)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute
Ouality Department

Sample Date: N/A Receive Date: 10/02/17 Assav Date: 10/05/17

File Name: STR 171006 wmr

Report Date: 10/11/17

STR Locus	STR Genotype Repeat #	STR Genotype					
FGA	16–18,18.2,19,19.2,20,20.2,21,21.2,22, 22.2, 23, 23.2, 24, 24.2, 25, 25.2, 26–30, 31.2, 43.2, 44.2,45.2, 46.2	Identifying information has					
TPOX	6-13	been redacted to					
D8S1179	7-18	protect donor					
vWA	10-22	confidentiality. If more information					
Amelogenin	logenin X Y						
Penta_D	22 32 5 7 17						
CSF1PO	6-15	please, contact WiCell's Technical Support.					
D16S539	5, 8-15						
D7S820	6-14						
D13S317	7-15						
D5S818	7-16						
Penta_E	5-24						
D18S51	8-10, 10.2, 11-13, 13.2, 14-27						
D21S11	24,24.2,25,25.2,26-28,28.2,29,29.2, 30, 30.2,31, 31.2,32,32.2,33,33.2, 34,34.2,35,35.2,36-38						
TH01	4-9,9.3,10-11,13.3						
D3S1358	12-20						

<u>Results:</u> Based on the 12911-STR cells submitted by WiCell QA dated and received on 10/05/17, this sample (Label on Tube: 12911-STR) defines the STR profile of the human stem cell line JFHZ6 comprising 23 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human JFHZ6 stem cell line were detected and the concentration of DNA required to achieve an acceptable STR genotype (signal/ noise) was equivalent to that required for the standard procedure (~1 ng/amplification reaction) from human genomic DNA. This result suggests that the 12911-STR sample submitted corresponds to the JFHZ6 stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

<u>Sensitivity:</u> Sensitivity limits for detection of STR polymorphisms unique to either this or other human stem cell lines is ~2-5%.

X RMB Digitally Signed on 10/12/17	X WMR	Digitally Signed on	10/12/17
TRIP Laboratory, Molecular	UWHC Molecular	, PhD, Director / Co-Director Diagnostics Laboratory / UWS	

Native Product Sterility Report



WiCell

504 S Rosa Rd, Rm 101 Madison, WI 53719 CORRECTED REPORT SAMPLE #:

17090875

DATE RECEIVED:

14-Sep-17

TEST INITIATED:

18-Sep-17

TEST COMPLETED:

02-Oct-17

SAMPLE NAME / DESCRIPTION:

MCW003i-40001883-WB66553_12835, MCW047i-U2234-WB66549_12836, MCW071i-U2177-WB66552_12837, MCW086i-40000176-WB66545_12838, MCW090i-40000374-WB66557_12839, MCW091i-U2202-WB66554_12840,

MCW097i-400001654-WB66548_12841, MCW112i-40000893-WB66551_12842, MCW116i-40001890-WB66550_12843, MCW073i-40000527-

WB66570_12844, MCW060i-U2183-WB66559_12845, JFHZ4-WB66573_12846, JFHZ5-WB66587_12847, JFHZ6-WB66583_12848, JFMD6-WB66581_12849, JFNY2-WB66584_12850, JFRBi5-WB66569_12851, JFWT2-WB66586_12852, JFWT4-WB66582_12853, UCSD239i-APP2-1-WB66585_12854, MCW100i-U2341-WB66575_12881, MCW114i-U2144-WB66566_12882, iPS(IMR90)-2-

WB66588_12883, UCSD035i-4-4-WB62259_12884, UCSD064i-20-2-WB63303_12885, UCSD143i-87-1-WB57685_12886, UCSD161i-93-1-WB54536_12887, UCSD199i-107-1-WB59910_12888, UCSD209i-24-1-

WB57661_12889, UCSD081i-1-14-WB61903_12890

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS Cells

TEST RESULTS:

	# Positives	
# Tested	(Growth)	- Control
30	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
30	TSB	40	20-25	14
30	FTG	40	30-35	14

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

METHOD VALIDATION / PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

Native Product Sterility Report



COMMENTS:

Sample # 17090875

Report revised due to Customer request to update Sample Name / Description.

REVIEWED BY DAT

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. This test report shall not be reproduced, except in full, without prior written approval. Liability is limited to the costs of the tests.



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing September 25, 2017

FORM SOP-QU-004.01 Version F Edition 02 Reported by: KR Reviewed by: JB BD Monolight 180

		Reading A		A Reading B		В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	JFHZ6-WB66583 12911	197	211	204	73	78	75.5	0.37	Negative	
2	Positive (+) Control	466	487	476.5	37344	37714	37529	78.76	Positive	
3	Negative (-) Control	780	791	785.5	81	86	83.5	0.11	Negative	

