

# **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	iPS(IMR90)-4	
WiCell Lot Number	WB67850	
Parent Material	iPS(IMR90)-4-MCB-01	
Provider/Client	University of Wisconsin - Dr. James Th	nomson
Banked By	WiCell	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into mTeSR <sup>™</sup> Plus and Matrigel <sup>®</sup> .	3 wells of a 6 well plate using
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol
Culture Platform Prior to Freeze	Medium: mTeSR <sup>™</sup> Plus	Matrix: Matrigel®
Passage Number	p32 Cells were cultured for 31 passages prior to freeze and post reprogramming. Plated cells at thaw should be labeled passage 32.	
Date Vialed	14-March-2022	
Vial Label	iPS(IMR90)-4 p32 WB67850	
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.	



# **Certificate of Analysis**

### Results

Test Description	Test Provider	Test Method	Test Specification	Result
	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
Karyotype	Results: 46,XX Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.		l of	
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega™	Consistent with STR profile of deposited cell line	See Report
Mycoplasma	WiCell	PCR	Amplification of mycoplasma specific DNA detected with negative result	Pass
Sterility	Steris	Native Product Direct Transfer using FTM and TSB (ST/07)	Negative for growth following 14 days of culture	Pass

Approval Date	WiCell Quality Assurance Approval	
25-May-2022	5/25/2022 <b>X</b> JKG	
	JKG Director, Quality Assurance Signed by: Gay, Jenna	



#### Chromosome Analysis Report: 091194

Date Reported: Friday, March 25, 2022

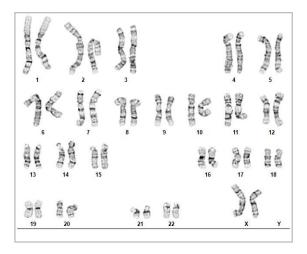
Cell Line: iPS(IMR90)-4-WB67850

Submitted Passage #: 32

Date of Sample: 3/21/2022

Specimen: Human IPSC

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: LOT\_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 81

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 425 - 450

#### Interpretation:

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

Completed by: Jennifer Pecos, CG(ASCP)
Reviewed and Interpreted by: Vanessa Horner, PhD, FAMCG

For internal use only			
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 >3-10Mb, 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 of this assay are for research use only. Unless otherwise mutually agreed in writing, the services provided to you hereunder by WiCell Research Institute, Inc. ("WiCell") are governed solely by WiCell's Terms and Conditions of Service, found at www.wicell.org/privacyandterms. Any terms you may attach to a purchase order or other document that are inconsistent, add to, or conflict with WiCell's Terms and Conditions of Service are null and void and of no legal force or effect.



### **Short Tandem Repeat**

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 21Mar22 STR Amplification Date: 22Mar22

Sample Name	iPS(IMR90)-4- WB67850 p32	iPS(IMR90)-4- WB67847 p34	iPS(IMR90)-4- WB67846 p34
Label on tube	91194	91193	91192
FGA			
TPOX			
D8S1179			
vWA			
Amelogenin			
Penta_D		Identifying	
CSF1PO		information has been redacted to	
D16S539		protect donor	
D7S820		confidentiality. If more information	
D13S317		is required,	
D5S818		please contact info@wicell.org	
Penta_E			
D18S51			
D21S11			
TH01			
D3S1358			
Allelic Polymorphisms	28	28	28
Matches*	See Matches Comment	See Matches Comment	See Matches Comment
Comments			

<sup>\*</sup>Note: The STR profile of the following sample is an exact match for the given sample/samples.



### **Short Tandem Repeat**

Form SOP-89.01 Version 8.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 21Mar22 STR Amplification Date: 22Mar22

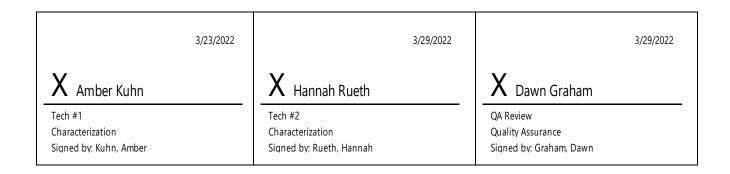
<u>Assay Description:</u> STR analysis is performed using the PowerPlex 16 HS System by Promega<sup>TM</sup>. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> 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. These results suggests that the cells submitted correspond to the cell lines as named and were not contaminated with any other human cells or a significant amount of mouse feeder layer cells.

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

<u>Matches:</u> Samples 91192, 91194, and 91193 are an exact match to 87887, 87793, 84550, 63441, 58649, 67351, 70422, 65704, 63444 and 96.67% match to 63442. Additional matches can be provided upon request.



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Raw data is available upon request.



### Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell Stem Cell Bank, WiCell 22Mar22

Form SOP-83.01 Version 5.0

Sample Name	Result	Interpretation
iPS(IMR90)-4-WB67846 p34 (91192)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
iPS(IMR90)-4-WB67847 p34 (91193)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
iPS(IMR90)-4-WB67850 p32 (91194)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Assay Description
Sample is tested for presence of mycoplasma using EZ-PCR <sup>TM</sup> Mycoplasma Detection Kit (Sartorius).

3/22/2	022 3/2-	4/2022 3/25/2022
X Amber Kuhn	X Kayla Janke	X Dawn Graham
Tech #1 Characterization Signed by: Kuhn, Amber	Tech #2 Characterization Signed by: Janke, Kayla	QA Review Quality Assurance Signed by: Graham, Dawn

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A gel image is available upon request.

## Native Product Sterility Report



SAMPLE #:

22040783

DATE RECEIVED:

14-Apr-22

TEST INITIATED:

28-Apr-22

**TEST COMPLETED:** 

12-May-22

SAMPLE NAME / DESCRIPTION:

504 S Rosa Road, Rm 101

Madison, WI 53719

WiCell

JHU038i-DB40987 JHU039i-DB40991

JHU040i-DB41044

JHU043i-DB41052

JHU048i-DB41068

JHU055i-DB41083

JHU158i-DB36358

.....

JHU171i-DB36374

JHU197i-DB41411 JHU235i-DB37044

JHU185i-DB41395

JHU052i-DB41077

iPS(IMR90)-4-WB67850

iPS(IMR90)-4-WB67851

iPS(IMR90)-4-WB67852

iPS(IMR90)-4-WB67853

PENN102i-96-1-DB36580

PENN104i-321-6-DB34693

**UNIQUE IDENTIFIER:** 

N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
19	0	2 Negatives

**TEST SUMMARY:** 

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

## Native Product Sterility Report



REFERENCE:	Processed according to LAF

Processed according to LAB-003: Sterility Test Procedure

PD #:

000053

TEST METHODOLOGY:

**USP** - Direct Transfer

**COMMENTS:** 

NA

REVIEWED BY Janu Buckhard

DATE 23May202 2

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. Results applied to samples as received.