



Certificate of Analysis

Thaw and Culture Details

Cell Line Name	SCR6904i	
WiCell Lot Number	WB67890	
Parent Material	SCR6904i-DB43007	
Provider/Client	The Scripps Research Institute – Laboratory of Dr. Eric Topol	
Banked By	WiCell	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR™ 1 and Matrigel®.	
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: mTeSR™ 1	Matrix: Matrigel®
Passage Number	p15 Cells were cultured for 14 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 15.	
Date Vialied	08-JUNE-2022	
Vial Label	SCR6904i p15 WB67890	
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.	



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Results

Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	Results: 46,XX Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.			
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™	Defines 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



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Testing Reported by Provider

The Provider stated that some or all of the additional analyses listed below may have been performed for this cell line. For more information, publication and dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

- HumanCore Exome Kit
- Methylation
- Tra1-60 marker expression via flow cytometry
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	WiCell Quality Assurance Approval
04-August-2022	<p style="text-align: right;">8/4/2022</p> <p>X DLG _____</p> <p><small>WIC WiCell Quality Assurance Signed by: Graham, Dawn</small></p>

Date Reported: Tuesday, July 26, 2022

Cell Line: SCRP6904i-WB67890

Submitted Passage #: 15

Date of Sample: 7/15/2022

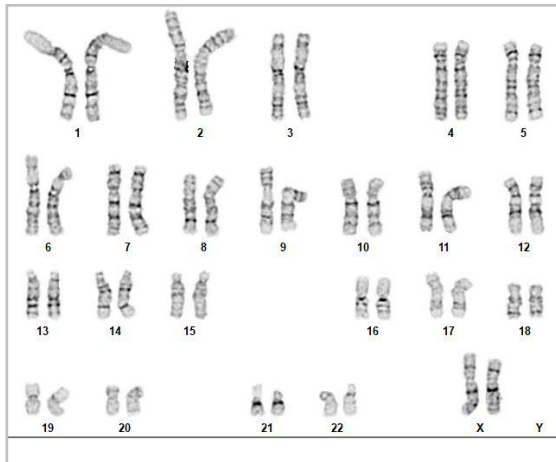
Specimen: Human iPSC

Results: 46,XX

Cell Line Sex: Female

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 21

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 425 - 475

Interpretation:

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

Completed by: Leah George, CG(ASCP)

Reviewed and Interpreted by: Vanessa Horner, PhD, FACMG

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: 14Jul22, 15Jul22

STR Amplification Date: 16Jul22

Form SOP-89.01

Version 9.0

Sample Name	WIZ04e- H9CAGmChry- WB67905 p38	SCR6904i- WB67890 p15	STAN164i- 352C1- WB67917 p19	STAN095i- 102C4- WB67915 p14
WiCell CTR No. ¹	92908	92907	92906	92893
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org			
TPOX				
D8S1179				
vWA				
Amelogenin				
Penta_D				
CSF1PO				
D16S539				
D7S820				
D13S317				
D5S818				
Penta_E				
D18S51				
D21S11				
TH01				
D3S1358				
Allelic Polymorphisms	24	26	28	26
Matches*	See Matches Comment		80615, 80762	73739, 73725
Comments				

**Note: The STR profile of the following sample is a 100% match for the given sample/samples unless otherwise specified.*

¹ CTR No.: Characterization Test Request Number; also known as a laboratory accessioning number.



Short Tandem Repeat

Form SOP-89.01
Version 9.0

Requestor: WiCell Stem Cell Bank, WiCell
Samples Received: 14Jul22, 15Jul22
STR Amplification Date: 16Jul22

Assay Description: STR analysis is performed using the PowerPlex 16 HS System by Promega™. 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 24-28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: 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 ~2-4%.

Matches: 92908 is a match to 92553, 92481, 90918, 90917, 89607, 86113, 84932, 84931, 84930, 84656, and to additional profiles. Additional matches provided upon request.

7/20/2022	7/21/2022	7/21/2022
X Molly Miles	X Amber Kuhn	X Hunter Hefti
<hr/> Tech #1 Characterization Signed by: Miles, Molly	<hr/> Tech #2 Characterization Signed by: Kuhn, Amber	<hr/> QA Review Quality Assurance Signed by: Hefti, Hunter

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Mycoplasma Assay Report

PCR-based assay performed by WiCell
WiCell Stem Cell Bank, WiCell
19Jul22

Form SOP-83.01
Version 5.0

Sample Name	Result	Interpretation
PENN004i-277-1-WB67929 p19 (92918)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN165i-M2-21-WB67928 p27 (92917)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN248i-617C1-WB67923 p17 (92916)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC170 16Jul22 KLP 2/2 (92915)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC170 16Jul22 KLP 1/2 (92914)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC169 16Jul22 JG (92913)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 16Jul22 JH (92912)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC149 16Jul22 MMM (92911)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WIZ04e-H9CAGmChry-WB67905 p38 (92908)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
SCR6904i-WB67890 p15 (92907)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN164i-352C1-WB67917 p19 (92906)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN095i-102C4-WB67915 p14 (92893)	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™ Mycoplasma Detection Kit (Sartorius).

7/19/2022	7/20/2022	7/20/2022
 Justin Hobson <hr/> Tech #1 Characterization Signed by: Hobson, Justin	 Amber Kuhn <hr/> Tech #2 Characterization Signed by: Kuhn, Amber	 Hunter Hefti <hr/> QA Review Quality Assurance Signed by: Hefti, Hunter

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A gel image is available upon request.

Native Product Sterility Report



WiCell
504 S Rosa Road, Rm 101
Madison, WI 53719

SAMPLE #: 22061406
DATE RECEIVED: 23-Jun-22
TEST INITIATED: 01-Jul-22
TEST COMPLETED: 15-Jul-22

SAMPLE NAME / DESCRIPTION: WC-24-02-DS-M-WB67887
STAN220i-504C2-DB35478
STAN222i-509C2-DB44165
STAN223i-509C3-DB44168
WC007i-FX13-2-WB67902
WIZ03e-H9CAGhM3Dq-WB67889
WC026i-5807-3-WB67904
WIZ04e-H9CAGmChry-WB67905
SCR6904i-WB67890
PENN078i-SV10-DB36423

UNIQUE IDENTIFIER: N/A

TEST RESULTS:	# Tested	# Positives (Growth)	- Control
	10	0	2 Negatives

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

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY 

DATE 18 JUL 2022

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.