



Certificate of Analysis

Thaw and Culture Details

Cell Line Name	SCR9904i
WiCell Lot Number	DB43177
Provider	The Scripps Research Institute – Laboratory of Dr. Eric Topol
Banked By	Gladstone Institutes – Laboratory of Dr. Sheng Ding
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate using mTeSR™ 1 and Matrigel®. WiCell recommends thawing using ROCK Inhibitor for best results.
Culture Platform	Feeder Independent
	Medium: mTeSR™ 1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol
Passage Number	p10 These cells were cultured for 10 passages after colony picking prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialled	06-June-2016
Vial Label	HE01053, Passage 10, Jun-6-2016
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
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	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

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	Quality Assurance Approval
12-September-2016	3/25/2025  HEB Quality Assurance Signed by HEBrunner

Date Reported: February 26, 2025

Cell Line: SCRP9904i-DB43177

Submitted Passage #: 12

Date of Sample: 2/21/2025

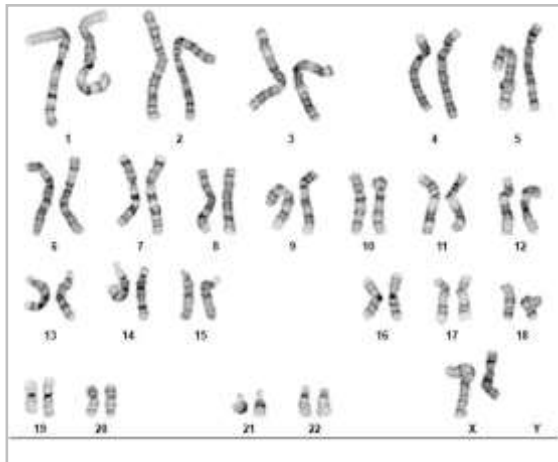
Specimen: Human IPSC

Results: 46,XX

Cell Line Sex: Female

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 6

Slide: G02

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: Korrine Thornell, CG(ASCP)

Reviewed and Interpreted by: Justin Schleede, 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

Sample Receipt Date: 21Feb25

STR Amplification Date: 04Mar25

Form SOP-89.01

Version 14.0

Sample Name	SCR9301i-DB43141 p12	SCR9904i-DB43177 p12
WiCell CTR No. ¹	106105	106104
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	27	28
Matches ²		
Comments		

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

² The STR profile of the sample(s) listed are a 100% match for the given sample unless otherwise specified.



Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell

Sample Receipt Date: 21Feb25

STR Amplification Date: 04Mar25

Form SOP-89.01

Version 14.0

Assay Description: Short Tandem Repeat (STR) analysis is performed using the PowerPlex® 16 HS System by Promega™. Results are reported as 13 CODIS STR markers, Amelogenin for sex determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 27-28 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 suggest 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%.

3/5/2025	3/6/2025	3/7/2025
X Amber Kuhn	X Michael Mussar	X Dawn Graham
Tech #1	Tech #2	QA Review
Characterization	Characterization	Quality Assurance
Signed by: Kuhn, Amber	Signed by: Mussar, Michael	Signed by: Graham, Dawn

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Mycoplasma Assay Report

PCR-based assay performed by WiCell
WiCell Stem Cell Bank, WiCell
04Mar25

Form SOP-83.01
Version 7.0

Sample Name	Result	Interpretation
SCR9904i-DB43177 p14 (106189)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
SCR9301i-DB43141 p14 (106190)	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).

3/4/2025	3/4/2025	3/5/2025
X Steph Dos Santos Tech #1 Characterization Signed by: Dos Santos, Stephany	X Michael Mussar Tech #2 Characterization Signed by: Mussar, Michael	X Dawn Graham QA Review Quality Assurance Signed by: Graham, Dawn

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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

CORRECTED REPORT

SAMPLE #: 21090138
DATE RECEIVED: 02-Sep-21
TEST INITIATED: 09-Sep-21
TEST COMPLETED: 23-Sep-21

SAMPLE NAME / DESCRIPTION:

STAN061i-164-1-WB67675
CREM055i-BR37-1-WB67683
IMR90-TSC2Het-WB67712
IMR90-TSC2Null-WB67713
WC-52-TSC2Corr-WB67715
WC-52-TSC2Null-WB67719
STAN014i-121-2-DB31149
STAN073i-180-1-DB31159
STAN074i-180-2-DB31166
NDO.SS.015-WB67711
NDO.SS.005-WB67721
NDO.SS.006-WB67722
NDO.SS.007-WB67723
SCR9001i-DB43138
SCR9301i-DB43141
SCR9501i-DB43147
SCR9805i-DB43172
SCR9904i-DB43177
CREM031i-SS47-1-DB48067

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
19	1	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 LAB-003: Sterility Test Procedure

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: Sample # 21090138

Report revised due to updated comment.

Sample labeled STAN014i-121-2-DB31149 is positive.

REVIEWED BY

A handwritten signature in blue ink, appearing to read "Paul H. ...", written over a horizontal line.

DATE 15 OCT 2021

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.