

Certificate of Analysis

Thaw and Culture Details

Cell Line Name	WC-24-02-DS-A		
WiCell Lot Number	WB68530		
Parent Material	WC-24-02-DS-A-WB18711		
Provider/Client	University of Wisconsin - Dr. Anita Bha	attacharyya	
Banked By	WiCell		
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into mTeSR [™] 1 and Cultrex [®] .	3 wells of a 6 well plate using	
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: mTeSR [™] 1	Matrix: Cultrex®	
Passage Number	p22 Cells were cultured for 21 passages prior to freeze. Plated cells at thaw should be labeled passage 22.		
Date Vialed	08-July-2024		
Vial Label	WC-24-02-DS-A		
	p22 WB68530 Store at -135C or colder Made in United States Research Use Only		
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 Nonclonal Findings: 47,XX,+4 Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.					
	There is a nonclonal finding, listed above. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.					
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	
11-September-2024	9/11/2024 X HEB HBB WiCell Quality Assurance Signed by: Bruner, Halley	



Chromosome Analysis Report: 103456

Date Reported: August 19, 2024

Cell Line: WC-24-02-DS-A-WB68530

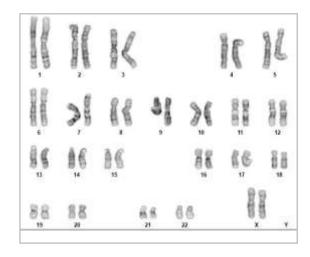
Submitted Passage #: 22

Date of Sample: 8/13/2024

Specimen: Human IPSC

Results: 46,XX

Nonclonal Findings: 47,XX,+4



Cell Line Sex: Female

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 41

Slide: G03

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 350 - 425

Interpretation:

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

There is a nonclonal finding, listed above. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

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

Form SOP-89.01 Version 13.0

Requestor: WiCell Stem Cell Bank, WiCell Sample Receipt Date: 31Jul24 STR Amplification Date: 07Aug24

Sample Name	WC-24-02-DS-A- WB68530 p23	
WiCell CTR No.1	103288	
FGA		
TPOX		
D8S1179	Identifying	
vWA	information has	
Amelogenin	been redacted to protect donor	
Penta_D	confidentiality. If more information	
CSF1PO	is required,	
D16S539	please contact info@wicell.org	
D7\$820	iiiio @ Wiccii.org	
D13S317		
D5S818		
Penta_E		
D18S51	_	
D21S11		
TH01	_	
D3S1358		
Allelic Polymorphisms	26	
Matches ²	See Results	
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

Form SOP-89.01 Version 13.0

Requestor: WiCell Stem Cell Bank, WiCell Sample Receipt Date: 31Jul24 STR Amplification Date: 07Aug24

<u>Assay Description:</u> 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.

<u>Results:</u> The genotypic profiles comprise a range of 26 allelic polymorphisms across the 15 STR loci analyzed. Sample 103288 is a 100% match to 103130, 95322, 19124 and a 93.33% match to 102657, 102115, 101953, 101596, 92525, 19513, 19247 and additional profiles. Additional matches can be provided upon request.

<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 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%.

8/8/2024	8/9/2024	8/12/2024
X Amber Kuhn	X Anna Lisa Larson	X Hunter Hefti
Tech #1 Characterization Signed by, Kuhn, Amber	Tech #2 Characterization Signed by. Larson, Anna Lisa	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 05Aug24

Form SOP-83.01 Version 6.0

Sample Name	Result	Interpretation
WC-24-02-DS-A-WB68530 p23 (103288)	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-PCRTM Mycoplasma Detection Kit (Sartorius).

8/8/2024	8/8/2024	8/8/2024
X Kaylie Petersen	X John Raff	X Brad Harmening
Tech #1 Characterization Signed by: Petersen, Kaylie	Tech #2 Characterization Signed by: Raff, John	QA Review Quality Assurance Signed by: Harmening, Brad

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A gel image is available upon request.

Native Product Sterility Report



SAMPLE #: 24080476

DATE RECEIVED: 15-Aug-24

TEST INITIATED: 16-Aug-24

TEST COMPLETED: 30-Aug-24

SAMPLE NAME / DESCRIPTION: WC030i-5907-2-WB68495

hiPSC-Tri21-c2-4-WB68517 WC-24-02-DS-A-WB68530 WC-24-02-DS-C-WB68529 hiPSC-Di21-c2-4-4-WB68528 STAN381i-652C1-DB44674 STAN380i-092C2-DB44671 STAN379i-783C6-DB44668 STAN377i-572C5-DB44662 STAN375i-961C1-DB44656 STAN374i-565C4-DB44653 STAN373i-412C4-DB44650 STAN372i-411C8-DB44647 STAN370i-190C3-DB44524

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

Accounting@wicell.org

Madison, WI 53719

504 S Rosa Road, Rm 101

# Tested	# Positives (Growth)	- Control
14	3	2 Negatives

TEST SUMMARY:

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

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

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

Native Product Sterility Report



COMMENTS:

Sample labeled as ISMMS 565i C4 P11 PEC 042016 positive in both media and samples labeled as ISMMS 411i C8 P15 PEC 060316 and ISMMS 961i C1 P10 PEC 060316

positive in TSB

Sample 24080476

AUTHORIZED BY

DATE 03SEP2024

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.