Certificate of Analysis

Thaw and Culture Details

Cell Line Name	**WC032i-6007-1**
WiCell Lot Number	**WB68273**
Provider/Client	University of Wisconsin – Laboratory of Anita Bhattacharyya
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR™1 and Cultrex®.
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol
Culture Platform Prior to Freeze	Medium: mTeSR™1 Matrix: Cultrex®
Passage Number	p13 Cells were cultured for 12 passages prior to freeze and post reprogramming. Plated cells at thaw should be labeled passage 13.
Date Vialed	23-February-2024
Vial Label	WC032i-6007-1 p13 WB68273 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
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	Results: 46,XY *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™	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
05-April-2024	4/5/2024 X JKG JKG WiCell Quality Assurance Signed by: Gay, Jenna

Form SOP-232.01 version 6.0

Chromosome Analysis Report: 100994

Date Reported: March 14, 2024

Cell Line: WC032i-6007-1-WB68273

Submitted Passage #: 13

Date of Sample: 3/5/2024

Specimen: Human IPSC

Results: 46,XY

Cell Line Sex: Male

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 43

Slide: G03

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 9

Total Karyogrammed: 4

Band Resolution: 400 - 450

Interpretation:

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

Completed by: Timm Gonzales, CG(ASCP)

Reviewed and Interpreted by: Justin Schleede, PhD, FACMG

Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell
Samples Received: 05Mar24
STR Amplification Date: 13Mar24

Sample Name	WC032i-6007-1-WB68273 p13
WiCell CTR No.[1]	100994
FGA	
TPOX	
D8S1179	
vWA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org
Amelogenin	
Penta_D	
CSF1PO	
D16S539	
D7S820	
D13S317	
D5S818	
Penta_E	
D18S51	
D21S11	
TH01	
D3S1358	
Allelic Polymorphisms	29
Matches*	67699, 67715
Comments	

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

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

Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell

Samples Received: 05Mar24

STR Amplification Date: 13Mar24

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 29 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%.

3/17/2024	3/20/2024	3/22/2024
X Amber Kuhn	X Kaylie Petersen	X Ryen Smith
Tech #1	Tech #2	QA Review
Characterization	Characterization	Quality Assurance
Signed by: Kuhn, Amber	Signed by: Petersen, Kaylie	Signed by: Smith, Ryen

Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell Stem Cell Bank, WiCell

06Mar24

Sample Name	Result	Interpretation
WC032i-6007-1-WB68273 p13 (100994)	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).

3/6/2024

X John Raff

Tech #1
Characterization
Signed by: Raff, John

3/7/2024

X Amber Kuhn

Tech #2
Characterization
Signed by: Kuhn, Amber

3/7/2024

X Dawn Graham

QA Review
Quality Assurance
Signed by: Graham, Dawn

Native Product Sterility Report

STERIS

Accounting@wicell.org
504 S Rosa Road, Rm 101
Madison, WI 53719

SAMPLE NAME / DESCRIPTION:

WA09-RB68234
WA09-RB68235
UCSD231i-SAD1-3-WB68241
UCSD234i-SAD2-3-WB68246
CBiPS-E12C1-PCBC-WB68252
JHU191i-WB68245
UCSD087i-6-4-WB68251
CBiPS-6.2-PCBC-WB68269
hIPSC-Di21-c2-4-4-WB68256
STAN222i-509C2-WB68276
WC032i-6007-1-WB68273
iPS DF19-9-7T-WB68268
STAN173i-368C2-DB37978
STAN305i-865C2-DB44177
STAN306i-865C3-DB44182
STAN254i-647C3-DB44629
STAN253i-647C1-DB44626
STAN107i-121C2-DB35873
STAN263i-703C1-DB35850
STAN264i-703C2-DB35853

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	0	2 Negatives

TEST SUMMARY:

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

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

PD #:   000053

TEST METHODOLOGY: USP - Direct Transfer

STERIS
9303 West Broadway Ave
Brooklyn Park, MN 55445

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Native Product Sterility Report

☰ STERIS

COMMENTS: Sample# 24030270

AUTHORIZED BY ⟨signature⟩   DATE 28MAR2024

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.

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