



Certificate of Analysis

Thaw and Culture Details

Cell Line Name	STAN305i-865C2	
WiCell Lot Number	DB44177	
Provider/Client	Stanford University – Laboratory of Dr. Thomas Queternous	
Banked By	Icahn School of Medicine at Mount Sinai Stem Cell Core	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR™ 1 Cultrex®. WiCell recommends thawing using ROCK Inhibitor for best results.	
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: mTeSR™ 1	Matrix: Matrigel®
Passage Number	p12 Cells were cultured for 12 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 13.	
Date Vial	19-August-2015	
Vial Label	ISMMS 865i C2P12 AP 081915	
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	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.

- RNA-Seq
- Whole Genome Sequencing
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	WiCell Quality Assurance Approval
05-April-2024	<div style="text-align: right; font-size: small;">4/5/2024</div> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> X JKG </div> <div style="font-size: x-small; margin-top: 2px;"> JKG WiCell Quality Assurance Signed by: Gav, Jenna </div>

Date Reported: March 19, 2024

Cell Line Sex: Male

Cell Line: STAN305i-865C2-DB44177

Reason for Testing: LOT_RELEASE

Submitted Passage #: 14

Date of Sample: 3/8/2024

Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human iPSC

Results: 46,XY



Cell: 2

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

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: Davena Lira, 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

Form SOP-89.01
Version 12.0

Requestor: WiCell Stem Cell Bank, WiCell
Samples Received: 07Mar24, 08Mar24, 11Mar24, 14Mar24
STR Amplification Date: 20Mar24

Sample Name	CBiPS-E12C1-PCBC-WB68252 p22	UCSD231i-SAD1-3-WB68241 p33	STAN305i-865C2-DB44177 p14	STAN222i-509C2-WB68276 p15	STAN306i-865C3-DB44182 p13
WiCell CTR No. ¹	101079	101091	101092	101094	101177
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	26	25	28	25
Matches*	76811	73332, 52284, 57678, 90755 (96.67%)	101177	92544, 92545	101092
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 12.0

Requestor: WiCell Stem Cell Bank, WiCell
Samples Received: 07Mar24, 08Mar24, 11Mar24, 14Mar24
STR Amplification Date: 20Mar24

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 25-28 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%.

3/26/2024	3/27/2024	3/28/2024
X Julia Graham	X Amber Kuhn	X Ryen Smith
<hr/> Tech #1 Characterization Signed by: Graham, Julia	<hr/> Tech #2 Characterization Signed by: Kuhn, Amber	<hr/> QA Review Quality Assurance Signed by: Smith, Ryen

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. Raw data is available upon request.



Mycoplasma Assay Report

PCR-based assay performed by WiCell
WiCell Stem Cell Bank, WiCell
13Mar24

Form SOP-83.01
Version 6.0

Sample Name	Result	Interpretation
UCSD231i-SAD1-3-WB68241 p33 (101091)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN305i-865C2-DB44177 p14 (101092)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN222i-509C2-WB68276 p15 (101094)	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).

3/13/2024	3/13/2024	3/15/2024
X John Raff <hr/> Tech #1 Characterization Signed by: Raff, John	X Michael Mussar <hr/> Tech #2 Characterization Signed by: Mussar, Michael	X Andy Arntz <hr/> QA Review Quality Assurance Signed by: Arntz, Andy

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.

A gel image is available upon request.

Native Product Sterility Report



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

SAMPLE #: 24030270
DATE RECEIVED: 07-Mar-24
TEST INITIATED: 07-Mar-24
TEST COMPLETED: 21-Mar-24

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

Native Product Sterility Report



COMMENTS: Sample# 24030270

AUTHORIZED BY

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke, positioned above a solid black horizontal line.

DATE

28 MAR 2024

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.