

# **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	WA09	
WiCell Lot Number	RB68234	
Parent Material	WIC-WA09-MB-004	
Provider/Client	University of Wisconsin – Dr. James Th	omson
Banked By	WiCell	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into mTeSR <sup>™</sup> 1 and Matrigel <sup>®</sup> .	4 wells of a 6 well plate using
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol
Culture Platform Prior to Freeze	Medium: mTeSR <sup>™</sup> 1	Matrix: Matrigel <sup>®</sup>
Passage Number	p30 Cells were cultured for 29 passages prid be labeled passage 30.	or to freeze. Plated cells at thaw should
Date Vialed	25-January-2024	
Vial Label	WA09 p30 RB68234 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.	

The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at http://www.wicell.org/privacyandterms.



# **Certificate of Analysis**

### **Results**

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<b>Test Description</b>	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         Interpretation:       This is a normal karyotype; no clonal abnormalities were detected at the stated band lever resolution.				l of	
Post-Thaw Viable Cell Recovery WiCell		Thaw using specified Thaw & Culture Recommendations	<ul> <li>≥ 15 Undifferentiated Colonies prior to passage,</li> <li>≤ 30% Differentiation prior to passage,</li> <li>and recoverable attachment after passage</li> </ul>	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
17-September-2024	9/17/2024 X DLG DLG WiCel Quality Assurance Signed by: Graham, Dawn

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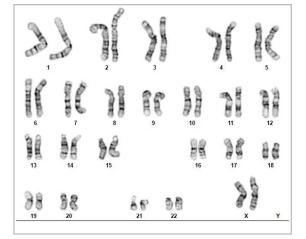
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Chromosome Analysis Report: 100682

Date Reported: February 23, 2024 Cell Line: WA09-RB68234 Submitted Passage #: 31 Date of Sample: 2/9/2024 Specimen: Human ESC Results: 46,XX Cell Line Sex: Female Reason for Testing: LOT\_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 5 Slide: G02 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 350 - 450

#### Interpretation:

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

Completed by:	Pam Mill	
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 or effect.



### Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 09Feb24, 16Feb24 STR Amplification Date: 20Feb24 Form SOP-89.01 Version 12.0

Sample Name	JHU191i- WB68245 p15	UCSD234i- SAD2-3- WB68246 p38	WA09-RB68234 p31	WA09-RB68235 p31
WiCell CTR No. <sup>1</sup>	100760	100759	100682	100681
FGA			26, 28	
ΤΡΟΧ			10, 11	
D8S1179	Identifyin	0	8, 14	Identifying
vWA	information	on has	17, 17	information has been redacted to
Amelogenin	been red protect d		Х, Х	protect donor
Penta_D	confident	tiality. If	9, 13	confidentiality. If more information
CSF1PO	more info is require		11, 11	is required,
D16S539	please co		12, 13	please contact info@wicell.org
D7S820	info@wic		9, 11	
D13S317			9, 9	
D5S818			11, 12	
Penta_E			11, 14	
D18S51			13, 13	
D21S11			30, 30	
TH01			9.3, 9.3	
D3S1358			13, 16	
Allelic Polymorphisms	27	27	24	24
Matches*	76163	90756, 47741, 69242, 67449	See matches comment	See matches comment
Comments				

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

<sup>&</sup>lt;sup>1</sup> 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: 09Feb24, 16Feb24 STR Amplification Date: 20Feb24

<u>Assay Description</u>: STR analysis is performed using the PowerPlex 16 HS System by Promega<sup>™</sup>. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

**<u>Results:</u>** The genotypic profiles comprise a range of 24-27 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: Samples 100681 and 100682 are a 100% match to each other and to 99356, 99312, 97827, 97437, 97371, 97171, 96184, 96183, 95823, 95822 and additional profiles. Additional matches can be provided upon request.

	2/29/2024	2,	/29/2024		2/29/2024
X Michael Mussar		X Amber Kuhn		${\sf X}$ Ryen Smith	
Tech #1 Characterization Signed by: Mussar, Michael		Tech #2 Characterization Signed by: Kuhn, Amber		QA Review Quality Assurance Signed by: Smith, Ryen	

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### Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell Stem Cell Bank, WiCell 14Feb24

Sample Name	Result	Interpretation
WA09-RB68235 p31 (100681)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WA09-RB68234 p31 (100682)	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<sup>™</sup> Mycoplasma Detection Kit (Sartorius).

	2/14/2024	2,	/14/2024		2/15/2024
X John Raff Tech #1 Characterization		X Amber Kuhn Tech #2 Characterization Signed by: Kuhn, Amber		X Dawn Graham QA Review Quality Assurance	

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A gel image is available upon request.

## Native Product Sterility Report



		SAMPLE #:	24030270
Accounting@wicell.org		DATE RECEIVED:	07-Mar-24
504 S Rosa Road, Rm 101		TEST INITIATED:	07-Mar-24
Madison, WI 53719		TEST COMPLETED:	21-Mar-24
SAMPLE NAME / DESCRIPTION:	W/400 DDC0224		
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**:

PD #:

TEST METHODOLOGY:

Processed according to LAB-003: Sterility Test Procedure 000053 USP - Direct Transfer

## Native Product Sterility Report



COMMENTS: Sample#

Sample# 24030270

AUTHORIZED BY

DATE 28MA

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.