




Thaw and Culture Details

Cell Line Name	WA09
WiCell Lot Number	RB67626
Parent Material	WIC-WA09-MB-001
Provider	University of Wisconsin – Dr. James Thomson
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate using mTeSR™Plus and Matrigel®.
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol
Culture Platform Prior to Freeze	Feeder Independent
	Medium: mTeSR™Plus
	Matrix: Matrigel®
Passage Number	p29 These cells were cultured for 28 passages prior to freeze. WiCell adds +1 to the passage number at freeze to best represent the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 29.
Date Vial	05-February-2021
Vial Label	WA09 p29 RB67626
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.

Testing Performed by WiCell

Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-49	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-99	≥ 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	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-79	Negative	Pass

Approval Date	Quality Assurance Approval
25-March-2021	<div style="text-align: right;">3/25/2021</div>  <small>JKG Quality Assurance Signed by: Gay, Jenna</small>

Date Reported: Thursday, February 25, 2021

Cell Line Sex: Female

Cell Line: WA09-RB67626

Reason for Testing: LOT_RELEASE

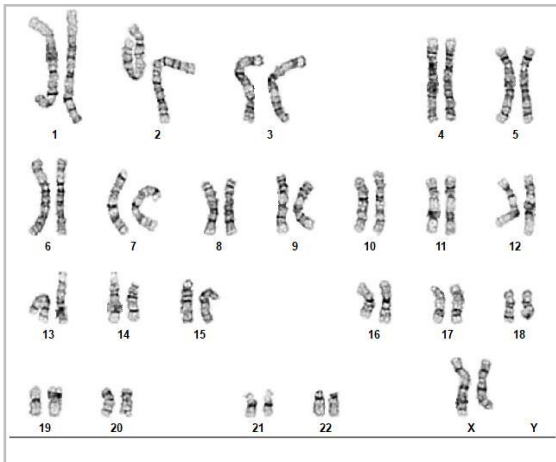
Submitted Passage #: 29

Date of Sample: 2/19/2021

Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human ESC

Results: 46,XX



Cell: 9

Slide: G02

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 400 - 475

Interpretation:

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

Completed by: [REDACTED], CG(ASCP)

Reviewed and Interpreted by: [REDACTED], PhD, FACMG

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 3.0

Requestor: WiCell Stem Cell Bank, WiCell

Samples Received: 18Feb21, 19Feb21

STR Amplification Date: 22Feb21

Sample Name	PENN005i-35-3-DB36317 p14	JHU042i-WB67618 p11	WA09-RB67629 p30	WA09-RB67628 p30	WA09-RB67626 p29	PENN006i-149-1-DB36519 p13
Label on tube	84925	84926	84930	84931	84932	84933
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org				26, 28	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org
TPOX					10, 11	
D8S1179					8, 14	
vWA					17, 17	
Amelogenin					X, X	
Penta_D					9, 13	
CSF1PO					11, 11	
D16S539					12, 13	
D7S820					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	26	26	24	24	24	24
Matches*		84413	See Matches Comment	See Matches Comment	See Matches Comment	
Comments						

*Note: The STR profile of the following sample is an exact match for the given sample/samples.



Short Tandem Repeat

Form SOP-89.01

Version 3.0

Requestor: WiCell Stem Cell Bank, WiCell

Samples Received: 18Feb21, 19Feb21

STR Amplification Date: 22Feb21

Results: The genotypic profiles comprise a range of 24-26 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 ~2-5%.

Matches: Samples 84930, 84931, and 84932 are exact matches to each other and to 14630, 74319, 74844, 74924, 74925, 83593, 84032, 84034, 84095, 84476, 84477, and 84656.

2/23/2021

2/23/2021

2/24/2021

X

[Redacted]

Tech #1

Characterization

Signed by: [Redacted]

X

[Redacted]

Tech #2

Characterization

Signed by: [Redacted]

X

[Redacted]

QA Review

Quality Assurance

Signed by: [Redacted]

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Raw data is available upon request.



Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell
23Feb21

FORM SOP-83.01

Version 2.0

Sample Name	Result	Interpretation
JHU042i-WB67618 p.11 (84926)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WA09-RB67629 p.30 (84930)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WA09-RB67628 p.30 (84931)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WA09-RB67626 p.29 (84932)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED], Assistant Research Specialist

Reviewed by: [REDACTED], Assistant Research Specialist

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A gel image is available upon request.