

### **Thaw and Culture Details**

Cell Line Name	WA09							
WiCell Lot Number	RB66490							
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 5 wells of a 6 well plate.							
Culture Platform	Feeder Independent							
	Medium: mTeSR™1							
	Matrix: Matrigel®							
Protocol	WiCell Feeder Independent mTeSR™1 Protocol							
Passage Number	p30 These cells were cultured for 29 passages prior to freeze. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.							
Date Vialed 01-August-2017								
Vial Label	WA09 p30 RB66490							
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-CH-003	Expected karyotype	Pass
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Consistent with known profile	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

Approval Date	Quality Assurance Approval		
13-December-2017	5/28/2000  X HEB  HEB  Cuslly Assurance Signed by: Bruner, Haley		



### Chromosome Analysis Report: 067485

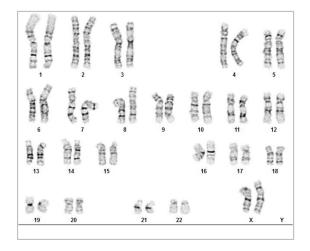
Date Reported: Wednesday, August 23, 2017 Cell Li

Cell Line: WA09-RB66490 12726

Passage#: 30

Date of Sample: 8/10/2017 Specimen: Human ESC

Results: 46,XX



Cell Line Gender: Female

Reason for Testing: lot release testing

Investigator: , WiCell CDM

Cell: 41

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 425 - 525

QC Review By: \_\_

#### Interpretation:

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

Sent By:\_\_\_\_ Sent To:\_

cell populations in this specimen (i.e.,mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

Completed by: CG(ASCP)
Reviewed and Interpreted by: PhD, FACMG

A signed copy of this report is available upon request.

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

This assay was conducted solely for listed investigator/institution. The results may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The results of this assay are for research use only. If the results of this assay are to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.

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# Short Tandem Repeat Analysis

WiCell® info@wicell.org (888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

**Sample Report:** 12726-STR

Sample Name on Tube: 12726-STR

 $57.4 \text{ ng/}\mu\text{L}$ , (A260/280=1.96)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute

Quality Department

Sample Date: N/A Receive Date: 08/14/17

**Assav Date:** 08/16/17

File Name: STR 170817 wmr

**Report Date:** 08/21/17

STR Locus	STR Genotype Repeat #	STR Genotype
FGA	16–18,18.2,19,19.2,20,20.2,21,21.2,22, 22.2, 23, 23.2, 24, 24.2, 25, 25.2, 26–30, 31.2, 43.2, 44.2,45.2, 46.2	26,28
TPOX	6-13	10,11
D8S1179	7-18	8,14
vWA	10-22	17,17
Amelogenin	X,Y	X,X
Penta_D	2.2, 3.2, 5, 7-17	9,13
CSF1PO	6-15	11,11
D16S539	5, 8-15	12,13
D7S820	6-14	9,11
D13S317	7-15	9,9
D5S818	7-16	11,12
Penta_E	5-24	11,14
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	13,13
D21S11	24,24.2,25,25.2,26-28,28.2,29,29.2, 30, 30.2,31, 31.2,32,32.2,33,33.2, 34,34.2,35,35.2,36-38	30,30
TH01	4-9,9.3,10-11,13.3	9.3,9.3
D3S1358	12-20	13,16

<u>Results:</u> Based on the 12726-STR cells submitted by WiCell QA dated and received on 08/14/17, this sample (Label on Tube: 12726-STR) exactly matches the STR profile of the human stem cell line WA09 comprising 24allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human WA09 stem cell line were detected and 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. This result suggests that the 12726-STR sample submitted corresponds to the WA09 stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

<u>Sensitivity:</u> Sensitivity limits for detection of STR polymorphisms unique to either this or other human stem cell lines is ~2-5%.

X RMB	Digitally Signed on	08/23/17	X WMR	Digitally Signed on	08/23/17
TRIP La	boratory, Molecular		UWHC Mole	, PhD, Director / Co-Director cular Diagnostics Laboratory / UW:	

## Native Product Sterility Report



SAMPLE #:

17081530

DATE RECEIVED:

24-Aug-17

TEST INITIATED:

25-Aug-17

TEST COMPLETED:

08-Sep-17

SAMPLE NAME / DESCRIPTION:

WA09-RB66490 12757

WA09-RB66492 12758

WA09-RB66493 12759

WC026i-5807-3 WB66538 12760 WC032i-6007-1-WB66540 12761 WC033i-6007-2-WB66539 12762 STAN008i-165-1-DB31100 12763 STAN009i-165-2-DB31110 12764 STAN053i-149-1-DB30924 12765 STAN001i-047-1-DB31118 12766

UNIQUE IDENTIFIER:

NΔ

PRODUCT REGISTRATION:

Human iPS cells

TEST RESULTS:

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

	# Positives	
# Tested	(Growth)	- Control
10	0	2 Negatives

TEST SUMMARY:

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

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

METHOD VALIDATION / PD #:

000053

**TEST METHODOLOGY:** 

**USP** - Direct Transfer

## Native Product Sterility Report



COMMENTS:

Sample # 17081530

REVIEWED BY Dessone

DATE USEPIT

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.



## Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing August 30, 2017

FORM SOP-QU-004.01 Version F Edition 02 Reported by: KR Reviewed by: BD Monolight 180

		Reading A		A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	WA09-RB66490 12806	211	218	214.5	76	75	75.5	0.35	Negative	
2	Positive (+) Control	387	395	391	25241	25413	25327	64.77	Positive	
3	Negative (-) Control	573	581	577	66	63	64.5	0.11	Negative	

