

### **Thaw and Culture Details**

Cell Line Name	MCW016i-A2159						
WiCell Lot Number	WB66510						
Provider	rovider Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel						
Banked By	WiCell						
Thaw and Culture WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.  Recommendations							
Culture Platform	Feeder Independent						
	Medium: TeSR™-E8™						
	Matrix: Matrigel®						
Protocol	WiCell Feeder Independent E8 Medium Protocol						
Passage Number	p13 These cells were cultured for 12 passages prior to freeze and colony picking. WiCell adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 13.						
Date Vialed	11-August-2017						
Vial Label	MCW016i-A2159 p13 WB66510						
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** 

realing remove by mean									
Test Description	Test Provider	Test Method	Test Specification	Result					
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report					
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	Defines profile	Pass					
Sterility	Steris	ST/07	Negative	Pass					
Mycoplasma	WiCell	SOP-QU-004	Negative	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.

- Tra1-60 marker expression
- mRNA expression by gPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)



Approval Date	Quality Assurance Approval			
14-May-2018	9/6/2018  X JKG  JKG  Quality Assurance Signed by Gay, Jenna			



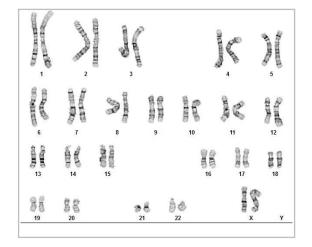
### Chromosome Analysis Report: 071935

Date Reported: Tuesday, June 05, 2018
Cell Line: MCW016i-A2159-WB66510 13760

Passage#: 13

Date of Sample: 5/30/2018 Specimen: Human IPS

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: lot release testing

Investigator: WiCell

Cell: 3

Slide: G03

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 400 - 500

#### Interpretation:

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

Completed by: , CG(ASCP)

Reviewed and Interpreted by: PhD, FACMG

A signed copy of this report is available upon request.

 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 Analysis**

**HISTOLOGY - IHC - MOLECULAR - IMAGING** 

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

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

info@wicell.org (888) 204-1782

**Sample Report:** 

13760-STR

Sample Name on Tube: 13760-STR

 $61.1 \text{ ng/}\mu\text{L}$ , (A260/280=1.78)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute

Quality Department

Sample Date: N/A **Receive Date:** 06/04/18 **Assay Date:** 06/05/18

File Name: 180606 STR TCS

**Report Date:** 06/08/18

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	Identifying				
TPOX	6-13	information has				
D8S1179	7-18	been redacted to				
vWA	10-22	protect donor confidentiality. If				
Amelogenin	X,Y	more information				
Penta_D	2.2, 3.2, 5, 7-17	is required,				
CSF1PO	6-15	please, contact				
D16S539	<b>S539</b> 5, 8-15					
D7S820	6-14	Support.				
D13S317	7-15					
D5S818	7-16					
Penta_E	5-24					
D18S51	8-10, 10.2, 11-13, 13.2, 14-27					
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					
TH01	4-9,9.3,10-11,13.3					
D3S1358	12-20					

Results: Based on the 13760-STR cells submitted by WiCell QA dated and received on 06/04/18, this sample (Label on Tube: 13760-STR) defines the STR profile of the human stem cell line MCW016i-A2159 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW016i-A2159 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 13760-STR sample submitted corresponds to the MCW016i-A2159 stem cell line and was not contaminated with any other human stem 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 stem cell lines is  $\sim 2-5\%$ .

X WMR  $\mathbf{X}$  RMB **Digitally Signed on** 06/11/18 **Digitally Signed on** 06/11/18 PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

## Native Product Sterility Report



SAMPLE #:

18030537

DATE RECEIVED:

08-Mar-18

**TEST INITIATED:** 

13-Mar-18

**TEST COMPLETED:** 

27-Mar-18

SAMPLE NAME / DESCRIPTION:

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

STAN129i-212C2 DB35772 13516

STAN130i-212C4 DB35777 13517

MCW002i-40001265 WB66495 13518 MCW004i-40002545 WB66488 13519

MCW00C: 40000030 WBCC400 1353

MCW006i-40000930 WB66499 13520

MCW008i-40000992 WB66496 13521

MCW010i-40000756 WB66487 13522

MCW011i-40000664 WB66486 13523

MCW015i-A2196 WB66497 13524 MCW016i-A2159 WB66510 13525

MCW021i-50001743 WB66448 13526

MCW025i-A2566 WB66504 13527

MCW034i-A2780 WB66502 13528

MCW036i-A3170 WB66501 13529 MCW037i-50000777 WB66459 13530

MCW041i-U2104 WB66494 13531

MCW048i-40001845 WB66460 13532

MCW050i-40000626 WB66467 13533

MCW067i-40001036 WB66478 13534

MCW068i-40002385 WB66452 13535

**UNIQUE IDENTIFIER:** 

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

**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

METHOD VALIDATION / PD #:

000053

STERIS Laboratories, Inc. 9303 West Broadway Ave Brooklyn Park, MN 55445 LAB-003 rev 31 Form 5 Effective: 2018-02-28 Page 1 of 2

## Native Product Sterility Report



TEST METHODOL	.OGY:	USP	- Direct	Transfer

COMMENTS:

Sample #18030537

Report as per packing slip.

REVIEWED BY	Dessand	 DATE 28MARI8

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 May 31, 2018

FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: DF BD Monolight 180

		Reading A		A Reading B		В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	MCW016i-A2159-WB66510 13760	338	343	340.5	119	119	119	0.35	Negative	
2	Positive (+) Control	562	530	546	23577	23843	23710	43.42	Positive	
3	Negative (-) Control	878	889	883.5	88	81	84.5	0.10	Negative	

