

Thaw and Culture Details

Cell Line Name	MCW015i-A2196						
WiCell Lot Number	WB66497						
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel						
Banked By	WiCell						
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.						
Culture Platform	Feeder Independent						
	Medium: mTeSR™1						
	Matrix: Matrigel®						
Protocol	WiCell Feeder Independent mTeSR1 Protocol						
Passage Number	p13 These cells were cultured for 12 passages prior to freeze and post 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	10-August-2017						
Vial Label	MCW015i-A2196 p13 WB66497						
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			
	WiCell	SOP-CH-003	Expected karyotype	See Report			
Karyotype by G-banding	Interpretation: This is a band level of resolution. There is a nonclonal findin acquired in cultures of this aberration; it was not obse	Results: 46,XX Nonclonal findings: 46,XX,idic(1)(p21) Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated					
Post-Thaw Viable Cell Recovery	WiCell						
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	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 qPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	Quality Assurance Approval
14-May-2018	5/21/2020 X JKG NG Quality Assurance Signed by: Gay, Jenna



Chromosome Analysis Report: 071920

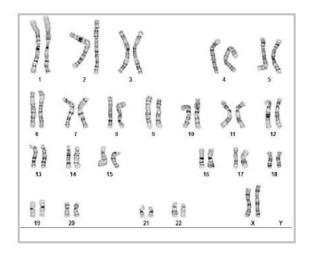
Date Reported: Monday, June 04, 2018
Cell Line: MCW015i-A2196-WB66497 13759

Passage#: 13

Date of Sample: 5/29/2018 Specimen: Human IPS

Results: 46,XX

Nonclonal findings: 46,XX,idic(1)(p21)



Cell Line Sex: Female

Reason for Testing: lot release testing

Investigator:

Cell: 23 Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 425 - 600

Interpretation:

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

There is a nonclonal finding, listed above, which contains a chromosomal aberration recurrently acquired in cultures of this cell type. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings likely result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

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:
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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

HISTOLOGY - IHC - MOLECULAR - IMAGING
Department of Pathology and Laboratory Medicine
TRIP Laboratory (Molecular)
http://www.pathology.wisc.edu/research/trip

Analysis

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

Sample Report: 13759-STR

Sample Name on Tube: 13759-STR

88.1 ng/μL, (A260/280=1.79)

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 information has				
TPOX	6-13	been redacted to protect donor				
D8S1179	7-18					
vWA	10-22	confidentiality. If				
Amelogenin	X,Y	more information				
Penta D	2.2, 3.2, 5, 7-17	is required, please, contact				
CSF1PO	6-15	WiCell's Technical				
D16S539	5, 8-15	Support.				
D7S820						
D13S317						
D5S818	55818 7-16					
Penta E	Penta E 5-24					
D18S51	D18S51 8-10, 10.2, 11-13, 13.2, 14-27					
D21S11	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					
TH01						
D3S1358	12-20					

<u>Results:</u> Based on the 13759-STR cells submitted by WiCell QA dated and received on 06/04/18, this sample (Label on Tube: 13759-STR) defines the STR profile of the human stem cell line MCW015i-A2196 comprising 30 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human MCW015i-A2196 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 13759-STR sample submitted corresponds to the MCW015i-A2196 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 06/08/18

X WMR Digitally Signed on 06/08/18

BA
TRIP Laboratory, Molecular

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 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

Native Product Sterility Report



TEST METHODOLOGY:	USP - Direct Transfer
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COMMENTS: Sample #18030537

Report as per packing slip.

REVIEWED BY	Dessand	DATE 28MAR18

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 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		Read	ling B	В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	\mathbf{B}/\mathbf{A}	Result	Comments/Suggestions
1	MCW015i-A2196-WB66497 13759	300	286	293	112	109	110.5	0.38	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	

