

### **Thaw and Culture Details**

Cell Line Name	MCW083i-40000695		
WiCell Lot Number	WB67174		
Parent Material	MCW083i-40000695-DB66390		
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel		
Banked By	WiCell		
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.		
Culture Platform	Feeder Independent		
	Medium: TeSR <sup>™</sup> -E8 <sup>™</sup>		
	Matrix: Matrigel®		
Protocol	WiCell Feeder Independent E8 Medium Protocol		
Passage Number	p16 These cells were cultured for 15 passages prior to freeze and post colony selection. 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 16.		
Date Vialed	30-April-2019		
Vial Label	MCW083i-40000695 p16 WB67174		
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		<b>Results:</b> 46,XX,inv(5)(p14p15.3)[14]/46,XX[6] <b>Interpretation:</b> This is an abnormal karyotype. A paracentric inversion of the short (p) arm of					
	chromosome 5 is present in fourteen of twenty cells examined. No other clonal abnormalities wer detected at the stated band level of resolution.						
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	<ul> <li>≥ 15 Undifferentiated Colonies prior to passage,</li> <li>≤ 30% Differentiation prior to passage, and recoverable attachment after passage</li> </ul>	Pass			
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-CH-044	Negative	Pass			

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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.



## **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<sup>®</sup> Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval		
04-June-2020	6442020 X JKG AddityAssurance Samed by Gar Jana		

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Date Reported: Friday, November 15, 2019 Cell Line Sex: Female Cell Line: MCW083i-40000695-WB67174 Reason for Testing: Lot Release Testing 15114 Passage#: 16 Date of Sample: 11/6/2019 Investigator: I. WiCell Specimen: Human IPSC Results: 46,XX,inv(5)(p14p15.3)[14]/46,XX[6] Cell: 10 Slide: G01 Slide Type: Karyotype Total Counted: 20

Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 425 - 450

#### Interpretation:

This is an abnormal karyotype. A paracentric inversion of the short (p) arm of chromosome 5 is present in fourteen of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution.

Completed by: Reviewed and Interpreted by:	2	, Ph.D.			
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

WiCell Research Institute

Quality Assurance Department

**Requestor:** 



characterization@wicell.org (608) 316-4145

Receive Date: 11/11/19 Report Sent: 11/19/19 Assay Date: 11/13/19 File Name: STR 191113 wmr Report Date: 11/19/19

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) https://research.pathology.wisc.edu/trip-home/ (608) 265-9168

### Sample Report: 15114-STR Sample Name on Tube: 15114-STR 77.8 ng/μL, (A260/280=1.90) Sample Type: Cells Cell Count: ~2 million cells

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
D8S1179	7-18	protect donor
vWA	10-22	confidentiality. If
Amelogenin	X,Y	more information
Penta D	2.2, 3.2, 5, 7-17	is required,
CSF1PO	6-15	please, contact WiCell's Technical
D16S539	5, 8-15	Support.
D7S820	6-14	
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	
<b>TH01</b>	4-9,9.3,10-11,13.3	
D3S1358	12-20	

<u>Results:</u> Based on the 15114-STR cells submitted by WiCell QA dated and received on 11/11/19, this sample (Label on Tube: 15114-STR) defines the STR profile of the human cell line MCW083i-40000695 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human MCW083i-40000695 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 15114-STR sample submitted corresponds to the MCW083i-40000695 cell line and was not contaminated with any other human 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 cell lines is ~2-5%.

X RMB	Digitally Signed on 11/19/19	X WMR Digitally Signed on 11/19/19	
TRIP La	, BA boratory, Molecular	, PhD, Director / Co-Director UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laborato	ערוי

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only. Acknowledge TRIP in your publications, posters & presentations. For details, see: https://research.pathology.wisc.edu/acknowledging-trip/ 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 https://www.wicell.org/media.acux/ca76d97c-862a-43f3-b02a-ab2d1e619100. 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.

# Native Product Sterility Report



WiCell 504 S Rosa Road, Rm 101 Madison, Wl 53719			SAMPLE #: DATE RECEIVED: TEST INITIATED: TEST COMPLETED:	19052193 23-May-19 03-Jun-19 17-Jun-19
SAMPLE NAME / DESCRIPTION:	STAN011i-123-1 STAN012i-123-2 MCW066i-U2368 MCW049i-40001630 MCW083i-40000695 MCW092i-U2390 MCW094i-U7120 MCW095i-U2311 MCW089i-40000312 MCW089i-40000312 MCW080i-U2236 CBiPS-6.2 CBiPS-6.2 CBiPS-19.11 CBiPS-6.13 CBiPS-19.11 CBiPS-6.13 CBiPS-126-1 CBiPS-E12C1 CBiPS-LZ6-1 CBiPS-LZ6-1 CBiPS-LZ6-1 Sendai-9-1 CBiPS-LZ6-12 Sendai-9-1 CBiPS-LZ6+3 029 iPS clone 4 retro-20.1 NiPSC SCRP2101i SCRP2115i SCRP2105	DB31129 DB31135 WB67169 WB67173 WB67174 WB67175 WB67185 WB67188 DB66959 DB66960 DB66960 DB66961 DB66961 DB66963 DB66977 DB66978 DB66977 DB66975 DB66975 DB66975 DB66965 DB66965 DB42034 DB42040 DB42043	14728 14729 14730 14731 14732 14733 14734 14735 14736 14736 14737 14738 14738 14739 14740 14741 14742 14743 14744 14745 14745 14746 14747 14748 14749 14750 14751 14752 14753 14754*	
UNIQUE IDENTIFIER:	NA			

## Native Product Sterility Report



TEST RESULTS:	# Tested	# Positives (Growth)	- Control		
	30	0	2 Negatives		
TEST SUMMARY:	# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
	30	TSB	40	20-25	14
	30	FTG	40	30-35	14
REFERENCE: PD #: TEST METHODOLO(		Processed accord 000053 USP - Direct Trar	ding to LAB-003: St nsfer	erility Test Procedu	ire
COMMENTS:	Sample #1905219	3			
	"Reported as" per	packing slip			
	*SCRP2210i SCRP2305i WC044i-IVF15-36	DB42046 DB42054 WB67190	14755 14756 14757		
REVIEWED BY	h	nU	m	DATE	205nN19

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.



## Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell 05Nov19

Sample Name	Result	Comments/Suggestions
MCW093i-40000435-WB67168 15115 (78976)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW083i-40000695-WB67174 15114 (78977)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW074i-40002460-WB67203 15118 (78978)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW070i-40002330-WB67159 15117 (78979)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WTB-DB66964 15116 (78980)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC051i-FX08-23-WB67327 15107 (78981)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
HNEpc p3, ARPE-19 p3 C166 p10 INC 124	Magativa	
11/4/19 Empirico (78982)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
pHTM p5, HEK293 p5, 3T3-LI p7 INC124 11/4/19	Magating	
Empirico (78983)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

**Reported by:** , Cell Culture Specialist **Reviewed by:** 

, Cell Culture Specialist

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A gel image is available upon request.