



## Thaw and Culture Details

Cell Line Name	<b>MCW084i-U2053</b>
WiCell Lot Number	<b>WB67427</b>
Parent Material	MCW084i-U2053-DB66392
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: TeSR™-E8™
	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 Viald	12-February-2020
Vial Label	MCW084i-U2053 p16 WB67427
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	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	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



## 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 (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval
09-April-2020	<div style="text-align: right; font-size: small;">4/9/2020</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>X</b> JKG JKG Quality Assurance Signed by Gay, Jemina</div>

**Date Reported:** Friday, February 28, 2020

**Cell Line:** MCW084i-U2053-WB67427

**Passage#:** 17

**Date of Sample:** 2/24/2020

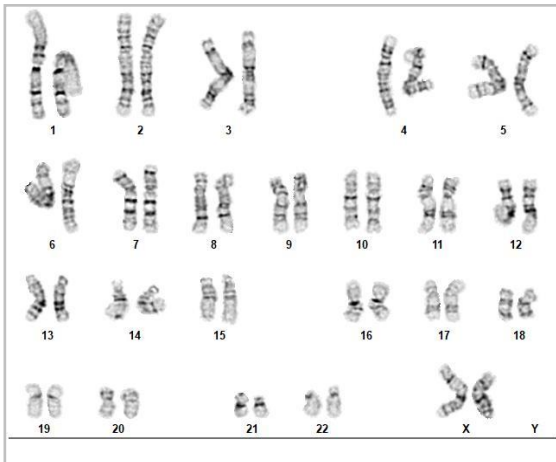
**Specimen:** Human iPSC

**Results:** 46,XX

**Cell Line Sex:** Female

**Reason for Testing:** LOT\_RELEASE

**Investigator:** WiCell Stem Cell Bank, WiCell



**Cell:** 33

**Slide:** G02

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyogrammed:** 4

**Band Resolution:** 400 - 550

**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](http://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

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

characterization@wicell.org  
 (608) 316-4145

**Sample Report:**  
 MCW084i-U2053-WB67427 p.17 D02 (80594)  
**Sample Name on Tube:** MCW084i-U2053-WB67427 p.17 D02 (80594)  
 21.2 ng/ $\mu$ L, (A260/280=1.93)  
**Sample Type:** DNA  
**Cell Count:** N/A

**Requestor:**  
 WiCell Research Institute  
 Characterization Department

**Receive Date:** 03/02/20  
**Report Sent:** 03/14/20  
**Assay Date:** 03/10/20  
**File Name:** STR 200311 wmr  
**Report Date:** 03/14/20

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 been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .
TPOX	6-13	
D8S1179	7-18	
vWA	10-22	
Amelogenin	X,Y	
Penta_D	2.2, 3.2, 5, 7-17	
CSF1PO	6-15	
D16S539	5, 8-15	
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	
TH01	4-9,9.3,10-11,13.3	
D3S1358	12-20	

**Results:** Based on the MCW084i-U2053-WB67427 p.17 D02 (80594) cells submitted by WiCell Characterization Department dated and received on 03/02/20, this sample (Label on Tube: MCW084i-U2053-WB67427 p.17 D02 (80594)) defines the STR profile of the human cell line MCW084i-U2053 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human MCW084i-U2053 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 MCW084i-U2053-WB67427 p.17 D02 (80594) sample submitted corresponds to the MCW084i-U2053 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 cell lines is ~2-5%.

X *RMB*

Digitally Signed on 03/14/20

██████████, BA  
 TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 03/14/20

██████████, PhD, Director / Co-Director  
 UWHC Molecular Diagnostics Laboratory / UWSPH TRIP Laboratory

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/>  
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# Native Product Sterility Report



WiCell  
504 S Rosa Road, Rm 101  
Madison, WI 53719

SAMPLE #: 20030283  
DATE RECEIVED: 05-Mar-20  
TEST INITIATED: 06-Mar-20  
TEST COMPLETED: 20-Mar-20

SAMPLE NAME / DESCRIPTION: MCW021i-50001743 WB67429  
MCW084i-U2053 WB67427  
MCW115i-U2143 WB67428  
SCR5402i WB67430  
MCW102i-UR117 WB67432  
MCW108i-U2165 WB67431  
CREM048i-BR3-1 DB66766  
CREM049i-BR21-1 DB66767  
CREM050i-BR23-1 DB66768  
CREM061i-BT1-1 DB66780  
CREM062i-BT2 DB66781  
Elf1 WB67433  
STAN133i-215C1 DB44608  
STAN134i-215C2 DB44611  
STAN291i-827C1 DB44304  
STAN292i-827C2 DB44307  
STAN251i-637C1 DB44371  
STAN311i-906C1 DB44418  
STAN312i-906C3 DB44421  
STAN360i-465C2 DB44240  
STAN088i-060C1 DB35739  
STAN164i-352C1 DB35976  
STAN165i-352C5 DB35979  
STAN230i-533C1 DB35783  
STAN231i-533C2 DB35786  
(see remainder in comments)

UNIQUE IDENTIFIER: NA

## TEST RESULTS:

# Tested	# Positives (Growth)	- Control
30	1	2 Negatives

# Native Product Sterility Report

**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:**

Processed according to LAB-003: Sterility Test Procedure

**PD #:**

000053

**TEST METHODOLOGY:**

USP - Direct Transfer

**COMMENTS:**

Sample # 20030283

Sample labeled ISMMS 827i C2P16 AP 030416 in Media Type TSB is positive.

## Sample Name/Description continued:

SCRPO302i DB42682  
SCRPO104i DB42002  
SCRPO202i DB42005  
SCRPO203i DB42677  
SCRPO307i DB42014

REVIEWED BY

DATE

20 MAR 2020

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

19Feb20

FORM SOP-CH-048.01

Version B Edition 01

Sample Name	Result	Comments/Suggestions
STAN206i-459C1-WB67418 (80474)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW084i-U2053-WB67427 (80475)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW098i-40002583-WB67417 (80486)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN093i-081C1-DB35964 (80487)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN094i-081C2-DB35967 (80488)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN09i-33114.C-WB67412 (80489)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN120i-192C2-WB67406 (80490)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW055i-U2054-WB67416 (80491)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN130i-212C4-WB67415 (80492)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN133i-215C1-DB44608 (80493)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN134i-215C2-DB44611 (80494)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN291i-827C1-DB44304 (80495)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

**Reported by: Molly Miles, Cell Culture Specialist**

**Reviewed by: Katie Remondini, Cell Culture Specialist**

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*A gel image is available upon request.*