



## Thaw and Culture Details

Cell Line Name	<b>MCW100i-U2341</b>
WiCell Lot Number	<b>WB66575</b>
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	p14 These cells were cultured for 13 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 14.
Date Vialied	02-September-2017
Vial Label	MCW100i-U2341 p14 WB66575
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
	<p><b>Results:</b> 46,XX,i(20)(q10)[2]/46,XX[26] Nonclonal Findings: 47,XX,+12</p> <p><b>Interpretation:</b> This is an abnormal karyotype. There is an isochromosome of the long (q) arm of chromosome 20 in two of twenty-nine cells examined. This imbalance results in trisomy for 20q and monosomy for 20p. Gain of chromosome 20q is a recurrent acquired abnormality in cultures of this cell type. No other clonal abnormalities were detected at the stated band level of resolution. There is a pericentric inversion of chromosome 10 (inv(10)(p11.2q21.2)) in all cells examined. This inversion has been reported as a normal population variant. There is a nonclonal finding, listed above, which contains a chromosomal aberration (trisomy 12) recurrently acquired in cultures of this cell type. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.</p>			
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-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 (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval
14-May-2018	<p data-bbox="1019 590 1057 604">6/4/2020</p> <p data-bbox="878 617 927 642">X JKG</p> <p data-bbox="878 646 964 680">JKG Quality Assurance Signed by Gay, Jenna</p>

**Date Reported:** Wednesday, January 02, 2019

**Cell Line Sex:** Female

**Cell Line:** MCW100i-U2341-WB66575 14192

**Reason for Testing:** lot release testing

**Passage#:** 14

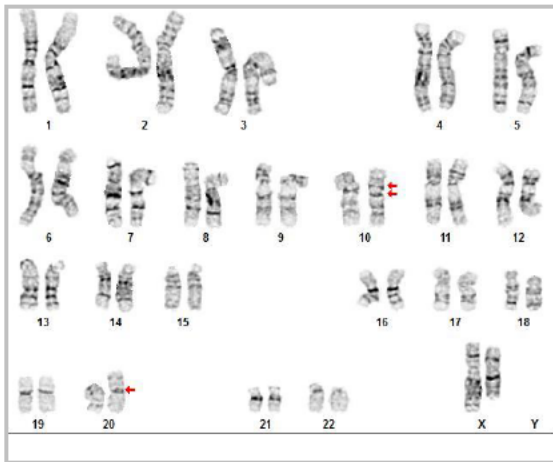
**Date of Sample:** 12/19/2018

**Investigator:** [REDACTED], WiCell

**Specimen:** Human IPS

**Results:** 46,XX,i(20)(q10)[2]/46,XX[26]

**Nonclonal Findings:** 47,XX,+12



**Cell:** 26

**Slide:** G01

**Slide Type:** Karyotype

**Total Counted:** 29

**Total Analyzed:** 10

**Total Karyogrammed:** 6

**Band Resolution:** 400 - 525

**Interpretation:**

*This is an abnormal karyotype. There is an isochromosome of the long (q) arm of chromosome 20 in two of twenty-nine cells examined. This imbalance results in trisomy for 20q and monosomy for 20p. Gain of chromosome 20q is a recurrent acquired abnormality in cultures of this cell type. No other clonal abnormalities were detected at the stated band level of resolution. There is a pericentric inversion of chromosome 10 (inv(10)(p11.2q21.2)) in all cells examined. This inversion has been reported as a normal population variant.*

*There is a nonclonal finding, listed above, which contains a chromosomal aberration (trisomy 12) recurrently acquired in cultures of this cell type. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.*

**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.*



HISTOLOGY - IHC - MOLECULAR - IMAGING

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

# Short Tandem Repeat Analysis



Your Lab Partner

[characterization@wicell.org](mailto:characterization@wicell.org)  
(608) 316-4145

**Sample Report:**

14192-STR

**Sample Name on Tube:** 14192-STR

73.7 ng/ $\mu$ L, (A260/280=1.86)

**Sample Type:** Cells

**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute

Quality Assurance Department

**Receive Date:** 01/02/19

**Report Sent:** 01/07/19

**Assay Date:** 01/02/19

**File Name:** STR 190103 revised wmr

**Report Date:** 01/07/19

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 14192-STR cells submitted by WiCell QA dated and received on 01/02/19, this sample (Label on Tube: 14192-STR) defines the STR profile of the human stem cell line MCW100i-U2341 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human MCW100i-U2341 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 14192-STR sample submitted corresponds to the MCW100i-U2341 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 ~2-5%.

X *RMB*

Digitally Signed on 01/07/19

X *WMR*

Digitally Signed on 01/07/19

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

██████████, PhD, Director / Co-Director  
UWHC Molecular Diagnostics Laboratory / UWSMPH 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: <http://www.pathology.wisc.edu/research/trip/acknowledging>

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



**CORRECTED  
REPORT**

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

SAMPLE #: 17090875  
DATE RECEIVED: 14-Sep-17  
TEST INITIATED: 18-Sep-17  
TEST COMPLETED: 02-Oct-17

SAMPLE NAME / DESCRIPTION: MCW003i-40001883-WB66553\_12835, MCW047i-U2234-WB66549\_12836, MCW071i-U2177-WB66552\_12837, MCW086i-40000176-WB66545\_12838, MCW090i-40000374-WB66557\_12839, MCW091i-U2202-WB66554\_12840, MCW097i-400001654-WB66548\_12841, MCW112i-40000893-WB66551\_12842, MCW116i-40001890-WB66550\_12843, MCW073i-40000527-WB66570\_12844, MCW060i-U2183-WB66559\_12845, JFHZ4-WB66573\_12846, JFHZ5-WB66587\_12847, JFHZ6-WB66583\_12848, JFMD6-WB66581\_12849, JFNY2-WB66584\_12850, JFRBi5-WB66569\_12851, JFWT2-WB66586\_12852, JFWT4-WB66582\_12853, UCSD239i-APP2-1-WB66585\_12854, MCW100i-U2341-WB66575\_12881, MCW114i-U2144-WB66566\_12882, iPS(IMR90)-2-WB66588\_12883, UCSD035i-4-4-WB62259\_12884, UCSD064i-20-2-WB63303\_12885, UCSD143i-87-1-WB57685\_12886, UCSD161i-93-1-WB54536\_12887, UCSD199i-107-1-WB59910\_12888, UCSD209i-24-1-WB57661\_12889, UCSD081i-1-14-WB61903\_12890

UNIQUE IDENTIFIER: NA  
PRODUCT REGISTRATION: Other: Human iPS Cells

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: Processed according to LAB-003: Sterility Test Procedure  
METHOD VALIDATION / PD #: 000053  
TEST METHODOLOGY: USP - Direct Transfer

# Native Product Sterility Report

**CORRECTED  
REPORT**



# STERIS

**COMMENTS:**

Sample # 17090875

Report revised due to Customer request to update Sample Name / Description.

REVIEWED BY \_\_\_\_\_

DATE \_\_\_\_\_

09/04/17

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

December 20, 2018

FORM SOP-QU-004.01

Version G Edition 02

Reported by: AP

Reviewed by: JB

BD Monolight 180

#	Sample Name	Reading A		A Ave	Reading B		B Ave	Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2		RLU1	RLU2				
1	MCW100i-U2341-WB66575 14192	249	269	259	82	85	83.5	0.32	Negative	
2	Positive (+) Control	397	396	396.5	30524	30825	30675	77.36	Positive	
3	Negative (-) Control	710	724	717	106	97	101.5	0.14	Negative	

