



## Thaw and Culture Details

Cell Line Name	<b>MCW074i-40002460</b>
WiCell Lot Number	<b>WB67203</b>
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™-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 Vialied	23-May-2019
Vial Label	MCW074i-40002460 p16 WB67203
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
21-November-2019	<p style="text-align: right;">11/21/2019</p> <p>X JKG _____</p> <p><small>JKG Quality Assurance Signed by: Gay, Jenna</small></p>

**Date Reported:** Wednesday, November 13, 2019

**Cell Line Sex:** Female

**Cell Line:** MCW074i-40002460-WB67203  
15118

**Reason for Testing:** Lot Release Testing

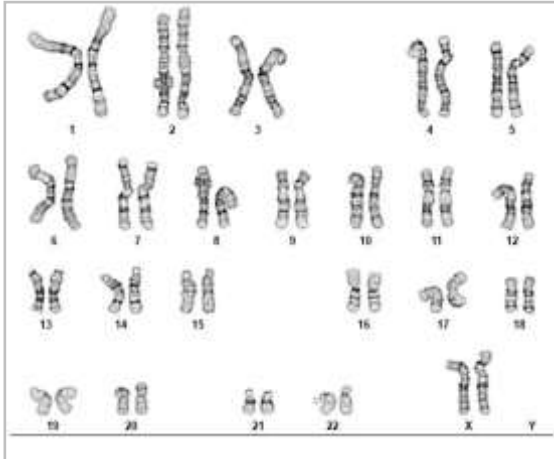
**Passage#:** 16

**Date of Sample:** 11/5/2019

**Investigator:** [REDACTED], WiCell

**Specimen:** Human iPSC

**Results:** 46,XX



**Cell:** 15

**Slide:** G02

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyogrammed:** 4

**Band Resolution:** 500 - 600

### 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], 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](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-home/>  
(608) 265-9168

# Short Tandem Repeat Analysis



characterization@wicell.org  
(608) 316-4145

**Sample Report:**

15118-STR  
**Sample Name on Tube:** 15118-STR  
55.8 ng/ $\mu$ L, (A260/280=1.78)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Assurance Department

**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

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 15118-STR cells submitted by WiCell QA dated and received on 11/11/19, this sample (Label on Tube: 15118-STR) defines the STR profile of the human cell line MCW074i-40002460 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human MCW074i-40002460 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 15118-STR sample submitted corresponds to the MCW074i-40002460 cell line and was not contaminated with any other human 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 11/19/19

**X** *WMR*  
Digitally Signed on 11/19/19

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:** <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 #: 19060913  
DATE RECEIVED: 12-Jun-19  
TEST INITIATED: 14-Jun-19  
TEST COMPLETED: 28-Jun-19

SAMPLE NAME / DESCRIPTION: STAN204i-448C1 WB67189 14791  
MCW013i-A2767 WB67191 14792  
JHU242i DB37058 14793  
MCW085i-40002118 WB67193 14794  
MCW081i-U7128 WB67194 14795  
STAN043i-124-1 WB67196 14796  
STAN038i-118-2 WB67197 14797  
MCW007i-U2456 WB67198 14798  
MCW096i-40000169 WB67199 14799  
MCW074i-40002460 WB67203 14800  
MCW110i-U2170 WB67204 14801  
STAN044i-124-2 WB67206 14802  
MCW105i-U2130 WB67207 14803  
MCW103i-40000237 WB67208 14804  
MCW101i-40001005 WB67209 14805  
hIPSC-Di21-c2-4-4 WB67210 14806  
WA07 WB67212 14807  
WA07 WB67213 14808  
MCW021i-50001743 WB67214 14809  
hIPSC-Di21-c2-4-3 WB67215 14810

UNIQUE IDENTIFIER: NA

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  
PD #: 000053  
TEST METHODOLOGY: USP - Direct Transfer

# Native Product Sterility Report



COMMENTS: NA

REVIEWED BY *[Signature]*

DATE 28 JUN 14

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

FORM SOP-CH-048.01

Version A Edition 01

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 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 Empirico (78983)	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.*