

Thaw and Culture Details

Cell Line Name	MCW014i-50000395		
WiCell Lot Number	WB67052		
Parent Material	MCW014i-50000395-DB66319		
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: mTeSR™1		
	Matrix: Matrigel®		
Protocol	WiCell Feeder Independent mTeSR™1 Protocol		
Passage Number p16 These cells were cultured for 15 passages prior to freeze and post colony picking. WiCell adds the passage number at freeze to best represent what the overall passage number of the cells at Plated cells at thaw should be labeled passage 16.			
Date Vialed 09-March-2019			
Vial Label	MCW014i-50000395 p16 WB67052		
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

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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, ≤ 30% Differentiation and recoverable attachment after passage	Pass
Identity by STR UW Translational Research Initiatives in Pathology Laboratory		PowerPlex 16 HS System by Promega	Defines profile	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 (MEGAEX)



Approval Date	Quality Assurance Approval
25-April-2019	A/25/2019 X JKG JKG Quality Assurance Signed by Gay, Jenna



Chromosome Analysis Report: 075765

Date Reported: Tuesday, April 02, 2019

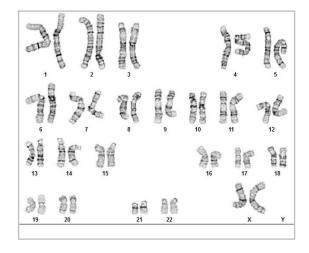
Cell Line: MCW014i-50000395-WB67052

14442

Passage#: 16

Date of Sample: 3/22/2019 Specimen: Human IPS

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: Expected normal

Investigator: WiCell

Cell: 41 Slide: G03

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 500 - 525

QC Review By:

Interpretation:

Date:

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

Sent By: Sent To:

Completed by: , CG(ASCP)

Reviewed and Interpreted by: , PhD, FACMG

Limitations: This assay allows for microscopic visualization of numerical and structural chromosome abnormalities. The size of structural abnormality that can be detected

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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



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

characterization@wicell.org (608) 316-4145

Sample Report: 14442-STR

Sample Name on Tube: 14442-STR

94.0 ng/µL, (A260/280=1.92)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor: WiCell Research Institute

Quality Assurance Department

Receive Date: 03/25/19 **Report Sent:** 04/01/19 **Assay Date:** 03/28/19

File Name: STR 190329 wmr

Report Date: 03/29/19

STR Locus	us STR Genotype Repeat #		
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	
TPOX	6-13	information has	
D8S1179	7-18	been redacted to	
vWA	10-22	protect donor confidentiality. If	
Amelogenin	X,Y	more information	
Penta_D	2.2, 3.2, 5, 7-17	is required,	
CSF1PO	6-15	please, contact	
D16S539	5, 8-15	WiCell's Technical	
D7S820	6-14	Support.	
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		

<u>Results:</u> Based on the 14442-STR cells submitted by WiCell QA dated and received on 03/25/19, this sample (Label on Tube: 14442-STR) defines the STR profile of the human stem cell line MCW014i-50000395 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW014i-50000395 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 14442-STR sample submitted corresponds to the MCW014i-50000395 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 04/01/19	X WMR	Digitally Signed on	04/01/19
TRIP La	, BA boratory, Molecular	UWHC Mole	, PhD, Director / Co-Director Diagnostics Laboratory / UV	

Native Product Sterility Report



SAMPLE #: 19032457

28-Mar-19

TEST INITIATED: 01-Apr-19

TEST COMPLETED: 15-Apr-19

DATE RECEIVED: WiCell 504 S Rosa Road, Rm 101

Madison, WI 53719

SAMPLE NAME / DESCRIPTION:

WA07 WB67046 14469

MCW012i-A7156 WB67051 14470 MCW014i-50000395 WB67052 14471 MCW032i-A7214 WB67053 14472 MCW053i-U2213 WB67054 14473 MCW043i-U2326 WB67056 14474 MCW045i-U2033 WB67057 14475 WC042e-H1dCGG0-B7 WB67063 14476 WC043e-H13dCGG0-23 WB67069 14477

WC044i-IVF15-36 WB67062 14478

UNIQUE IDENTIFIER:

NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
10 =	1	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
10	TSB	40	20-25	14
10	TSB	40	30-35	14

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

Sample labeled as WC044i-IVF15-36 WB67062 14478 was positive

DATE 16 APRIG REVIEWED BY

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.



WiCell

Mycoplasma Assay Report PCR-based assay performed by WiCell

PCR-based assay performed by WiCell
Lot Release Testing
25Mar19

#	Sample Name	Result	Comments/Suggestions
1	MCW014i-50000395-WB67052 14442	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
2	Positive (+) Control	Positive	
3	Negative (-) Control	Negative	

Reported by: Katie Remondini, Cell Culture Specialist
Reviewed by: Sondra Minter, Cell Culture Specialist
Date:______ Sent By:____ Sent To______

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A gel image is available upon request.