

Thaw and Culture Details

Cell Line Name	MCW049i-40001630
WiCell Lot Number	WB67173
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	p18 These cells were cultured for 17 passages prior to freeze and 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 18.
Date Vialed	29-April-2019
Vial Label	MCW049i-40001630 p18 WB67173
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	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 gPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)



Approval Date	Quality Assurance Approval
12-May-2018	9/16/2019 X JKG JKG Quality Assurance Signed by Gay, Jenna

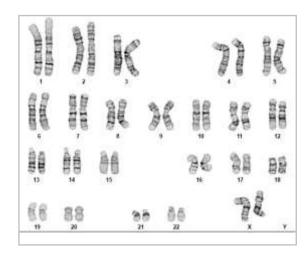


Chromosome Analysis Report: 078107

Date Repor	ted: Tuesday, September 3, 2019	Cell Line Sex:	Female
Cell Line:	MCW049i-40001630-WB67173 14965	Reason for Testing	g: lot release testing
Passage#:	18		

Date of Sample: 8/28/2019 Specimen: Human IPSC

Results: 46,XX



Cell: 41 Slide: G01

Investigator:

Slide Type: Karyotype

, WiCell

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 550

Interpretation:

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

Completed by: Reviewed and Interpreted by:		, PhD, FACMG), 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. 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.



TRIP Laboratory (Molecular)

Short Tandem Repeat HISTOLOGY - IHC - MOLECULAR - IMAGING

Analysis



characterization@wicell.org

(608) 316-4145

Sample Report: 14965-STR

(608) 265-9168

Sample Name on Tube: 14965-STR

Department of Pathology and Laboratory Medicine

https://research.pathology.wisc.edu/trip-home/

 $72.0 \text{ ng/}\mu\text{L}$, (A260/280=1.96)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Assurance Department **Receive Date:** 09/03/19 **Report Sent:** 09/09/19 **Assav Date:** 09/03/19

File Name: STR 190904 wmr

Report Date: 09/09/19

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
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	<u> </u>
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 14965-STR cells submitted by WiCell QA dated and received on 09/03/19, this sample (Label on Tube: 14965-STR) defines the STR profile of the human cell line MCW049i-40001630 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW049i-40001630 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 14965-STR sample submitted corresponds to the MCW049i-40001630 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

X RMB	Digitally Signed on 09/09/19	X WMR	Digitally Signed on 09/09/19
, BA TRIP Laboratory, Molecular		UWHC Mole	, PhD, Director / Co-Director cular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



WiCell

504 S Rosa Road, Rm 101 Madison, WI 53719 SAMPLE #:

19052193

DATE RECEIVED:

23-May-19

TEST INITIATED: TEST COMPLETED:

03-Jun-19 17-Jun-19

SAMPLE NAME / DESCRIPTION:

STAN011i-123-1	DB31129	14728
STAN012i-123-2	DB31135	14729
MCW066i-U2368	WB67169	14730
MCW049i-40001630	WB67173	14731
MCW083i-40000695	WB67174	14732
MCW092i-U2390	WB67175	14733
MCW094i-U7120	WB67177	14734
MCW095i-U2311	WB67185	14735
MCW088i-40000442	WB67186	14736
MCW089i-40000312	WB67187	14737
MCW080i-U2236	WB67188	14738
CBiPS-6.2	DB66959	14739
CBiPS-19.11	DB66960	14740
CBiPS-6.13	DB66961	14741
CBiPS-E12C1	DB66962	14742
CBiPS-E17C6	DB66963	14743
CBiPS-LZ6-1	DB66976	14744
CBiPS-LZ6-2	DB66977	14745
CBiPS-LZ6-12	DB66978	14746
Sendai-9-1	DB66967	14747
CBiPS-LZ6+3	DB66979	14748
029 iPS clone 4	DB66975	14749
retro-20.1	DB66966	14750
NiPSC	DB66965	14751
SCRP2101i	DB42034	14752
SCRP2115i	DB42040	14753
SCRP2208i	DB42043	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:

Processed according to LAB-003: Sterility Test Procedure

PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

Sample #19052193

"Reported as" per packing slip

*SCRP2210i

DB42046

14755

SCRP2305i

DB42054

14756

WC044i-IVF15-36

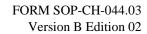
WB67190

14757

REVIEWED BY

DATE 205 NN19

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 Lot Release Testing - 14965
28Aug19

#	Sample Name	Result	Comments/Suggestions
1	MCW049i-40001630-WB67173 14965	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma
2	Positive (+) Control	Positive	
3	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.