



Thaw and Culture Details

Cell Line Name	MCW017i-A2106
WiCell Lot Number	WB67448
Parent Material	MCW017i-A2106-DB66322
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 using mTeSR™Plus and Matrigel®.
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol
Culture Platform Prior to Freeze	Feeder Independent
	Medium: mTeSR™Plus
	Matrix: Matrigel®
Passage Number	p21 These cells were cultured for 20 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 21.
Date Vialied	12-March-2020
Vial Label	MCW017i-A2106 p21 WB67448
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-49	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-99	≥ 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-79	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^{EX})

Approval Date	Quality Assurance Approval
10-September-2020	<p style="text-align: right;">9/10/2020</p> <p>X JKG _____</p> <p><small>JKG Quality Assurance Signed by: Gay, Jenna</small></p>

Date Reported: Tuesday, July 7, 2020

Cell Line: MCW017i-A2106-WB67448

Passage#: 21

Date of Sample: 6/29/2020

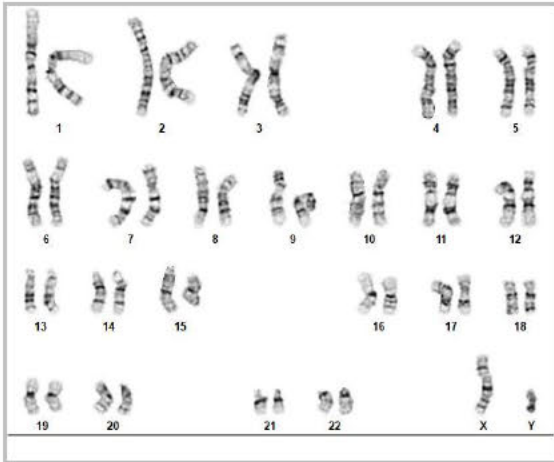
Specimen: Human iPSC

Results: 46,XY

Cell Line Sex: Male

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 63

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 400 - 450

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. 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.

Receive Date: 07/08/20
 Report Sent: 07/15/20

Short Tandem Repeat Analysis

Requestor: WiCell Characterization

Label on tube	MCW017i-A2106- WB67448 p.21 (81803)	MIN12i-33362.C- WB67499 p.21 (81802)	MCW017i-A2106- WB67449 p.21 (81829)
Label on Report	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support .		
conc (ng/μL)			
A260/280			
Assay Date			
File Name			
FGA			
TPOX			
D8S1179			
vWA			
Amelogenin			
Penta_D			
CSF1PO			
D16S539			
D7S820			
D13S317			
D5S818			
Penta_E			
D18S51			
D21S11			
TH01			
D3S1358			
Allelic Polymorphisms	24	26	24
Matches*	81829	79071, 73313, 32535	81803
Comments			



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



Your Lab Partner
characterization@wicell.org
 (608) 316-4145

Short Tandem Repeat Analysis

Results: Based on the DNA submitted by WiCell Characterization Department dated and received on 07/08/20, these samples define the STR profiles of the human cell lines as indicated by name. The genotypic profiles comprise a range of 24-26 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: 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. These results suggests that the cells submitted correspond to the cell lines as named and were 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%.

Acknowledge TRIP in your publications, posters & presentations. For details, see:
<https://research.pathology.wisc.edu/acknowledging-trip/>

* **Note:** The STR profile of the following sample is an exact match for the given sample/samples.

X RMB

Digitally Signed on 07/15/20

██████████, BA

TRIP Laboratory, Molecular

X WMR

Digitally Signed on 7/15/20

██████████, 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.

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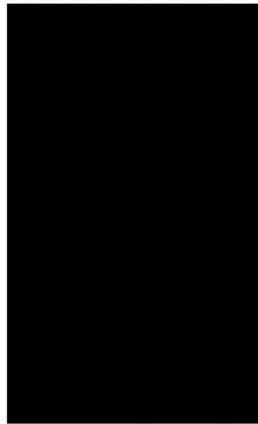
Native Product Sterility Report



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

SAMPLE #: 20080705
DATE RECEIVED: 13-Aug-20
TEST INITIATED: 20-Aug-20
TEST COMPLETED: 03-Sep-20

SAMPLE NAME / DESCRIPTION:



H9 inGFPPhES-WB67521

MCW017i-A2106-WB67449

MCW017i-A2106-WB67448

STAN215i-490C3-WB67522

SCRPO517i-DB42022

SCRPO601i-DB42025

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
10	0	2 Negatives

TEST SUMMARY:

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

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

Native Product Sterility Report



PD #: 000053
TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: Sample # 20080705

REVIEWED BY 

DATE 03 SEP 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

01Jul20

FORM SOP-CH-048.01

Version C Edition 01

Sample Name	Result	Comments/Suggestions
MCW017i-A2106-WB67448 (81798)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW017i-A2106-WB67449 (81799)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN12i-33362.C-WB67499 (81800)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WISCe011-A-39-DB67487 (81801)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
H13-FMR1-FLAG-DB67481 (81806)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
H1-FMR1-FLAG-DB67478 (81807)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED], Assistant Cell Culture Specialist

Reviewed by: [REDACTED], Cell Culture Specialist

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A gel image is available upon request.