




Thaw and Culture Details

Cell Line Name	MIN09i-33114.C.B
WiCell Lot Number	WB67531
Provider	Massachusetts General Hospital
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR™1 and Matrigel®
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol
Culture Platform Prior to Freeze	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Passage Number	p21 These cells were cultured for 20 passages prior to freeze. 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 20.
Date Vialied	19-August-2020
Vial Label	MIN09i-33114.C.B p21 WB67531
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	WiCell	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

Approval Date	Quality Assurance Approval
22-October-2020	<div style="text-align: right; font-size: small;">10/22/2020</div>  <div style="font-size: x-small;"> X JKG JKG Quality Assurance Signed by: Gay, Jenna </div>

Date Reported: Tuesday, September 22, 2020

Cell Line Sex: Male

Cell Line: MIN09i-33114.C.B-WB67531

Reason for Testing: LOT_RELEASE

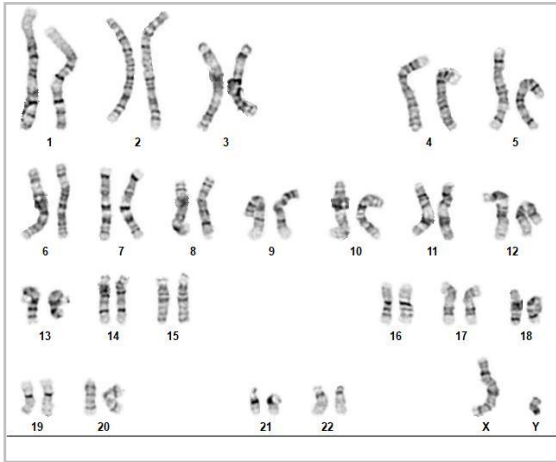
Submitted Passage #: 21

Date of Sample: 9/15/2020

Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human iPSC

Results: 46,XY



Cell: 37

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 450 - 500

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], 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. 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

Requestor: WiCell Stem Cell Bank, WiCell
 Samples Received: 15Sep20, 16Sep20, 17Sep20
 STR Amplification Date: 21Sep20

Sample Name	WISCe011-A-39-WB67548	MIN09i-33114.C.B-WB67531	WAI001-B-1-iETV2-DB67533	STAN270i-720C3-DB44433	MIN09i-33114.C.E-WB67532	iPS DF6-9-9T.B - PCBC-WB67552	iPS DF19-9-7T - PCBC-WB67547
Label on tube	82881	82882	82887	82888	82889	82890	82914
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support .						
TPOX							
D8S1179							
vWA							
Amelogenin							
Penta_D							
CSF1PO							
D16S539							
D7S820							
D13S317							
D5S818							
Penta_E							
D18S51							
D21S11							
TH01							
D3S1358							
Allelic Polymorphisms	28	28	27	27	28	27	27
Matches*	82047						
Comments							

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



Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell
Samples Received: 15Sep20, 16Sep20, 17Sep20
STR Amplification Date: 21Sep20

ResultsThe genotypic profiles comprise a range of 27-28 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%.

9/30/2020

9/30/2020

9/30/2020

X [Redacted]

X [Redacted]

X [Redacted]

Tech #1
Characterization
Signed by: [Redacted]

Tech #2
Characterization
Signed [Redacted]

QA Review
Quality Assurance
Signed by: [Redacted]

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Raw data is available upon request.

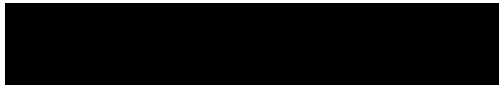
Native Product Sterility Report



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

SAMPLE #: 20091452
DATE RECEIVED: 24-Sep-20
TEST INITIATED: 30-Sep-20
TEST COMPLETED: 14-Oct-20

SAMPLE NAME / DESCRIPTION: iPS DF6-9-9T.B – PCBC-WB67552
MIN09i-33114.C.B-WB67531
MIN09i-33114.C.E-WB67532
SCRPO608i-DB42691
SCRPO802i-DB42031
SCRPI005i-DB42713
SCRPI021i-DB43185
SCRPI031i-DB43188



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

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY 

DATE 19 OCT 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

16Sep20

FORM SOP-83.01

Version 01

Sample Name	Result	Comments/Suggestions
INC149 08Sep20 AP (82819)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WAI001-B-1-iETV2-DB67533 (82859)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 09Sep20KR (82864)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN270i-720C3-DB44433 (82868)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN004i-277-1-DB36075 (82871)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN058i-285-3-DB34799 (82872)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
H13-FMR1-FLAG-DB67479 (82877)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WISCe011-A-39-WB67548 (82881)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN09i-33114.C.B-WB67531 (82882)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED] Research Specialist

Reviewed by: [REDACTED] Assistant Research Specialist

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A gel image is available upon request.