Thaw and Culture Details

Cell Line Name	**hIPSC-Di21-c2-4-4**
WiCell Lot Number	**WB67281**
Provider	University of Washington – Dr. David Russell
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	p41 These cells were cultured for 40 passages prior to freeze and post colony picking. WiCell adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 41.
Date Vialed	06-August-2019
Vial Label	hIPSC-Di21-c2-4-4 p41 WB67281
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

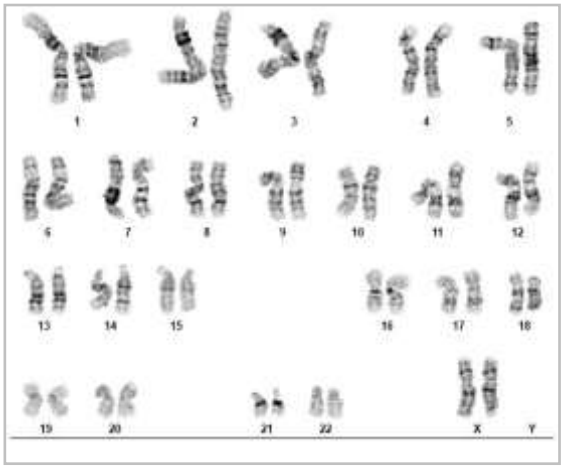
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-CH-044	Negative	Pass

Approval Date	Quality Assurance Approval
26-September-2019	7/14/2020 X_AA AA Quality Assurance Signed by: Arntz, Andy

Chromosome Analysis Report: 077901

Date Reported: Tuesday, August 20, 2019
Cell Line: hIPSC-Di21-c2-4-4-WB67281 14954
Passage#: 41
Date of Sample: 8/13/2019
Specimen: Human IPSC
Results: 46,XX

Cell Line Sex: Female
Reason for Testing: lot release testing
Investigator: [redacted] WiCell



Cell: 8
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 400 - 475

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".

Short Tandem Repeat Analysis

TRIPath
HISTOLOGY - IHC - MOLECULAR - IMAGING

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

WiCell
Your Lab Partner

characterization@wicell.org
(608) 316-4145

Sample Report:
14954-STR
Sample Name on Tube: 14954-STR
69.4 ng/µL, (A260/280=2.45)
Sample Type: Cells
Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Assurance Department

Receive Date: 08/19/19
Report Sent: 08/22/19
Assay Date: 08/20/19
File Name: STR 190821 wmr
Report Date: 08/22/19

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 WiCell's Technical Support.
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 14954-STR cells submitted by WiCell QA dated and received on 08/19/19, this sample (Label on Tube: 14954-STR) defines the STR profile of the human cell line hIPSC-Di21-c2-4-4 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human hIPSC-Di21-c2-4-4 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 14954-STR sample submitted corresponds to the hIPSC-Di21-c2-4-4 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 08/22/19**

[redacted] *BA*
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on 08/22/19**

[redacted] *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.

Native Product Sterility Report

STERIS

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

CORRECTED REPORT

SAMPLE #: 19090374
DATE RECEIVED: 05-Sep-19
TEST INITIATED: 09-Sep-19
TEST COMPLETED: 23-Sep-19

SAMPLE NAME / DESCRIPTION:

CBiPS-LZ6+3	WB67279	14989
hIPSC-Di21-c2-4-4	WB67281	14990
MCW026i-50000685	WB67283	14991
NiPSC	WB67284	14992
WIZ02e-H9CAGhM4Di	WB67286	14993
WIZ04e-H9CAGmChry	WB67287	14994
WC050i-17097-02-01	WB67288	14995
WC005i-FX11-7	WB67289	14996
PACS1002i-GM27159	DB67290	14997
SCRP4505i	WB67291	14998

UNIQUE IDENTIFIER: NA

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: Report revised due to corrected Sample Name/Description.

REVIEWED BY _____ DATE 25SEP19

Mycoplasma Assay Report

PCR-based assay performed by WiCell

Lot Release Testing - 14954

August 19, 2019

FORM SOP-CH-044.03
Version B Edition 02

#	Sample Name	Result	Comments/Suggestions
1	hIPSC-Di21-c2-4-4-WB67281 14954	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: Alex Paguirigan, Assistant Cell Culture Specialist

A gel image is available upon request.