Thaw and Culture Details

Cell Line Name	**hIPSC-Di21-c2-4-3**
WiCell Lot Number	**WB67215**
Provider	University of Washington – Dr. David Russell
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate. WiCell recommends passaging with ROCK Inhibitor
Culture Platform	Feeder Dependent
	Medium: cKOSR
	Matrix: MEF
Protocol	WiCell Feeder Dependent 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-June-2019
Vial Label	hIPSC-Di21-c2-4-3 p41 WB67215
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

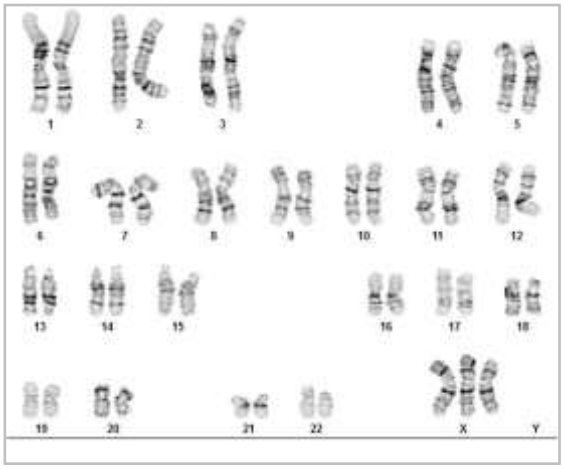
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
	Results: 47,XX,+X[3]/46,XX[17] ***Interpretation:*** This is an abnormal karyotype. An extra copy of the X chromosome is present in three of twenty cells examined. Gain of an X chromosome is recurrently acquired in pluripotent stem cell cultures. No other clonal abnormalities were detected at the stated band level of resolution.			
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-QU-004	Negative	Pass

Approval Date	Quality Assurance Approval
08-October-2024	10/8/2024 X HH HH Quality Assurance Signed by: Hefti, Hunter

Chromosome Analysis Report: 077704

Date Reported: Thursday, August 01, 2019
Cell Line: hIPSC-Di21-c2-4-3-WB67215 14867
Passage#: 42
Date of Sample: 7/26/2019
Specimen: Human IPSC
Results: 47,XX,+X[3]/46,XX[17]

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



Cell: 31
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9
Total Karyogrammed: 5
Band Resolution: 450 - 525

Interpretation:

This is an abnormal karyotype. An extra copy of the X chromosome is present in three of twenty cells examined. Gain of an X chromosome is recurrently acquired in pluripotent stem cell cultures. No other 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:
14815-STR
Sample Name on Tube: 14815-STR
52.1 ng/µL, (A260/280=2.03)
Sample Type: Cells
Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Assurance Department

Receive Date: 07/08/19
Report Sent: 07/12/19
Assay Date: 07/10/19
File Name: STR 190711 wmr
Report Date: 07/15/19

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 14815-STR cells submitted by WiCell QA dated and received on 07/08/19, this sample (Label on Tube: 14815-STR) defines the STR profile of the human cell line hIPSC-Di21-c2-4-3 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.**

Interpretation: **No STR polymorphisms other than those corresponding to the human hIPSC-Di21-c2-4-3 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 14815-STR sample submitted corresponds to the hIPSC-Di21-c2-4-3 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 07/15/19**

[redacted], *BA*
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on 07/15/19**

[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

SAMPLE #:	19060913
DATE RECEIVED:	12-Jun-19
TEST INITIATED:	14-Jun-19
TEST COMPLETED:	28-Jun-19

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

SAMPLE NAME / DESCRIPTION:

STAN204i-448C1 WB67189 14791
MCW013i-A2767 WB67191 14792
JHU242i DB37058 14793
MCW085i-40002118 WB67193 14794
MCW081i-U7128 WB67194 14795
STAN043i-124-1 WB67196 14796
STAN038i-118-2 WB67197 14797
MCW007i-U2456 WB67198 14798
MCW096i-40000169 WB67199 14799
MCW074i-40002460 WB67203 14800
MCW110i-U2170 WB67204 14801
STAN044i-124-2 WB67206 14802
MCW105i-U2130 WB67207 14803
MCW103i-40000237 WB67208 14804
MCW101i-40001005 WB67209 14805
hIPSC-Di21-c2-4-4 WB67210 14806
WA07 WB67212 14807
WA07 WB67213 14808
MCW021i-50001743 WB67214 14809
hIPSC-Di21-c2-4-3 WB67215 14810

UNIQUE IDENTIFIER: NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	0	2 Negatives

TEST SUMMARY:

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

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

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

Native Product Sterility Report

STERIS

COMMENTS: NA

REVIEWED BY _____ DATE 28 JUN 19

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

Lot Release Testing

19Jun19

FORM SOP-CH-044.03
Version B Edition 02

#	Sample Name	Result	Comments/Suggestions
1	hIPSC-Di21-c2-4-3-WB67215 14815	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: Gustavo Velazquez, Research Specialist- Cytogenetics
Date:_____ Sent By:____ Sent To_____

A gel image is available upon request.