Thaw and Culture Details

Cell Line Name	**WIZ04e-H9CAGmChry**
WiCell Lot Number	**WB67287**
Provider	University of Wisconsin – Dr. Su-Chun Zhang
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.
Culture Platform	Feeder Dependent
	Medium: Stem Cell Culture Medium
	Matrix: MEF
Protocol	WiCell Feeder Dependent Protocol
Passage Number	p34 These cells were cultured for 33 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 34.
Date Vialed	25-August-2019
Vial Label	WIZ04e-H9CAGmChry p34 WB67287
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

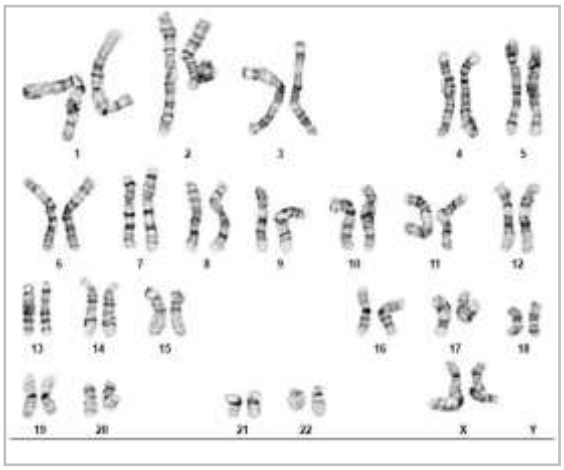
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment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

Approval Date	Quality Assurance Approval
05-December-2019	2/23/2022 X HEB HEB Quality Assurance Signed by: Bruner, Haley

Chromosome Analysis Report: 079040

Date Reported: Friday, November 15, 2019
Cell Line: WIZ04e-H9CAGmChry WB67287 15092
Passage#: 36
Date of Sample: 11/8/2019
Specimen: Human ESC
Results: 46,XX

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



Cell: 12
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9
Total Karyogrammed: 5
Band Resolution: 425 - 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], 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".

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:
15092-STR
Sample Name on Tube: 15092-STR
53.9 ng/µL, (A260/280=1.75)
Sample Type: Cells
Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Assurance Department

Receive Date: 11/11/19
Report Sent: 11/19/19
Assay Date: 11/13/19
File Name: STR 191113 wmr
Revised: 11/21/19

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	26,28
TPOX	6-13	10,11
D8S1179	7-18	8,14
vWA	10-22	17,17
Amelogenin	X,Y	X,X
Penta_D	2.2, 3.2, 5, 7-17	9,13
CSF1PO	6-15	11,11
D16S539	5, 8-15	12,13
D7S820	6-14	9,11
D13S317	7-15	9,9
D5S818	7-16	11,12
Penta_E	5-24	11,14
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	13,13
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	30,30
TH01	4-9,9.3,10-11,13.3	9.3,9.3
D3S1358	12-20	13,16

Results: **Based on the 15092-STR cells submitted by WiCell QA dated and received on 11/11/19, this sample (Label on Tube: 15092-STR) defines the STR profile of the human cell line WIZ04e-H9CAGmChry comprising 24 allelic polymorphisms across the 15 STR loci analyzed.**

Interpretation: **No STR polymorphisms other than those corresponding to the human WIZ04e-H9CAGmChry 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 15092-STR sample submitted corresponds to the WIZ04e-H9CAGmChry 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 11/21/19**

[redacted], *BA*
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on 11/21/19**

[redacted], *PhD, Director / Co-Director*
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

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

WiCell

04Nov19

FORM SOP-CH-048.01
Version A Edition 01

Sample Name	Result	Comments/Suggestions
WIZ04e-H9CAGmChry-WB67287 15092 (78907)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
SCRP4505i-WB67291 15087 (78912)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW080i-U2236-WB67188 15093 (78913)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW081i-U7128-WB67194 15091 (78914)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW069i-40000268-WB67167 15088 (78915)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN204i-448C1-WB67189 15089 (78916)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: Katie Remondini, Cell Culture Specialist
Reviewed by: Molly Miles, Cell Culture Specialist

A gel image is available upon request.

Verification of mCherry Reporter Protein

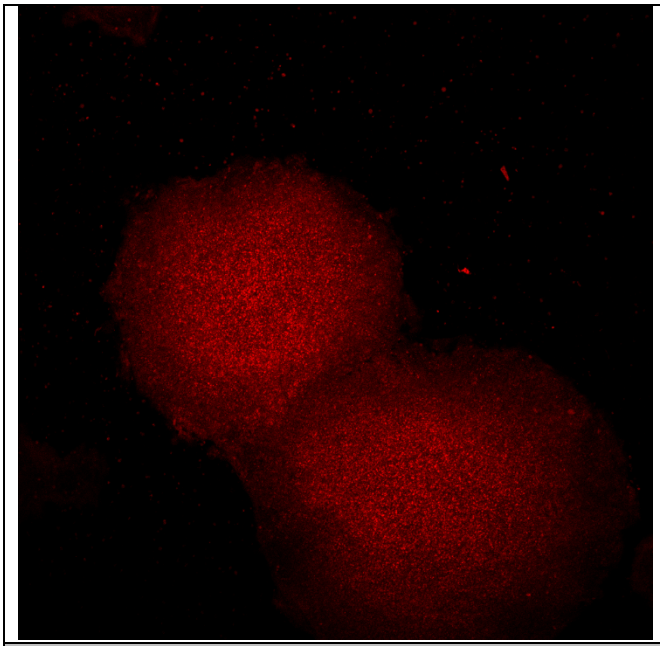
Cell Line-Lot Number	WIZ04e-H9CAGmChry-WB67287
Sample ID	15092
Passage Number	35
Assay Date	04NOV19
Reported By/Date	JB 04NOV19 / AP 11Nov19
Reviewed By/Date	JB 13NOV19
QA Review & Processed By/Date	HEB 13Nov19
Notes	☒ N/A

Data Acquisition

- Culture imaged by the University of Wisconsin Optical Imaging Core using a Leica DMi8 Fluorescent Microscope (Filter sets for 4 color widefield fluorescence acquisition using a Hg Arc Lamp).

Results

- Does this lot express the mCherry reporter protein?
  - Yes ☒
  - No ☐



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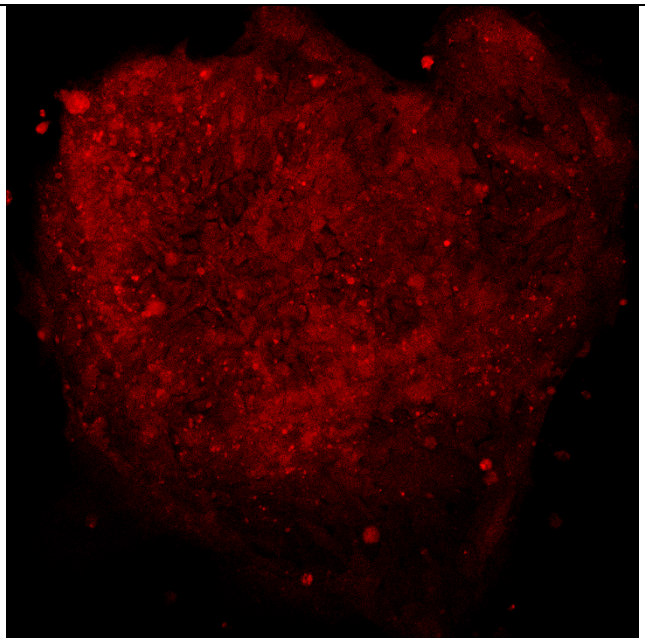

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