



Thaw and Culture Details

Cell Line Name	WIZ02e-H9CAGhM4Di
WiCell Lot Number	WB67286
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.
Culture Platform	Feeder Dependent
	Medium: Stem Cell Culture Medium
	Matrix: MEF
Protocol	WiCell Feeder Dependent Protocol
Passage Number	p38 These cells were cultured for 37 passages prior to freeze. 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 38.
Date Viald	23-August-2019
Vial Label	WIZ02e-H9CAGhM4Di p38 WB67286
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
21-November-2019	<p style="text-align: right;">11/21/2019</p> <p>X JKG</p> <hr/> <p><small>WiCell Quality Assurance Signed by: Gay, Jenna</small></p>

Date Reported: Thursday, October 10, 2019

Cell Line Sex: Female

Cell Line: WIZ02e-H9CAGhM4Di-WB67286
15019

Reason for Testing: lot release testing

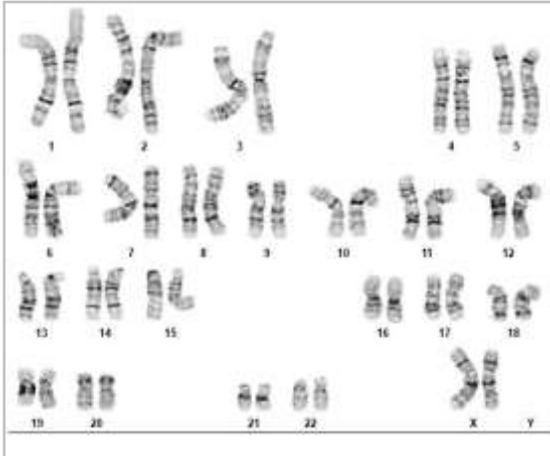
Passage#: 40

Date of Sample: 10/4/2019

Investigator: [REDACTED], WiCell

Specimen: Human ESC

Results: 46,XX



Cell: 4

Slide: G03

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 475 - 525

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.

Short Tandem Repeat Analysis

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

characterization@wicell.org
(608) 316-4145

Sample Report:
15019-STR
Sample Name on Tube: 15019-STR
63.2 ng/ μ L, (A260/280=1.83)
Sample Type: Cells
Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Assurance Department

Receive Date: 10/07/19
Report Sent: 10/14/19
Assay Date: 10/08/19
File Name: STR 191009 wmr
Report Date: 10/14/19

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 15019-STR cells submitted by WiCell QA dated and received on 10/07/19, this sample (Label on Tube: 15019-STR) defines the STR profile of the human cell line WIZ02e-H9CAGhM4Di comprising 24 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human WIZ02e-H9CAGhM4Di 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 15019-STR sample submitted corresponds to the WIZ02e-H9CAGhM4Di 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 10/14/19

X *WMR*

Digitally Signed on 10/14/19

██████████, BA
TRIP Laboratory, Molecular

██████████, 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.

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



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
SCR4505i	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

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

20Sep19

FORM SOP-CH-048.01

Version A Edition 01

Sample Name	Result	Comments/Suggestions
WC052i-FX08-24-DB67301 15021 (78405)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC053i-FX08-25-DB67302 15018 (78406)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WIZ02e-H9CAGhM4Di-WB67286 15019 (78407)	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: Alex Paguirigan, Assistant Cell Culture Specialist

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A gel image is available upon request.

Verification of mCherry Reporter Protein

Cell Line-Lot Number	WIZ02e-H9CAGhM4Di-WB67286
Sample ID	15026
Passage Number	40
Assay Date	07Oct19
Reported By/Date	AP/JB 07Oct19
Reviewed By/Date	JB 08OCT19
QA Review & Processed By/Date	HEB 23Oct19
Notes	<input checked="" type="checkbox"/> 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

