



Thaw and Culture Details

Cell Line Name	WIZ03e-H9CAGhM3Dq
WiCell Lot Number	WB67299
Provider	University of Wisconsin – Dr. Su-Chun Zhang
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: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p41 These cells were cultured for 40 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 41.
Date Vialied	03-September-2019
Vial Label	WIZ03e-H9CAGhM3Dq p41 WB67299
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 or SOP-QU-004	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	<div>11/21/2019</div> <div>X JKG</div> <div>JKG</div> <div>Quality Assurance</div> <div>Signed by: Gay, Jenna</div>



Chromosome Analysis Report: 078227

Date Reported: Monday, September 16, 2019

Cell Line Sex: Female

Cell Line: WIZ03e-H9CAGhM3Dq-WB67299
15000

Reason for Testing: lot release testing

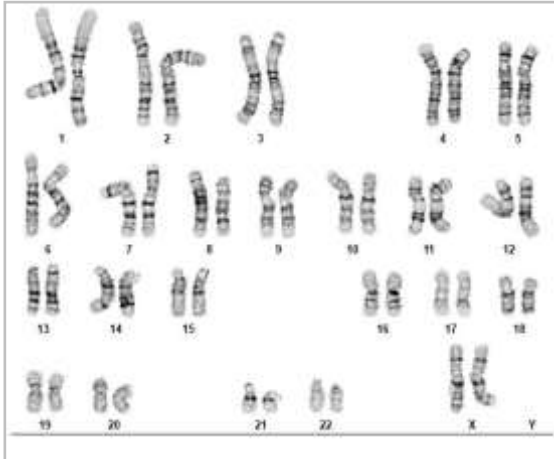
Passage#: 41

Date of Sample: 9/10/2019

Investigator: [REDACTED], WiCell

Specimen: Human ESC

Results: 46,XX



Cell: 14

Slide: G03

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 450 - 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], 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.



HISTOLOGY - IHC - MOLECULAR - IMAGING

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

Short Tandem Repeat Analysis



Your Lab Partner

characterization@wicell.org
(608) 316-4145

Sample Report:

15000-STR

Sample Name on Tube: 15000-STR

28.9 ng/μL, (A260/280=1.61)

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 15000-STR cells submitted by WiCell QA dated and received on 10/07/19, this sample (Label on Tube: 15000-STR) defines the STR profile of the human cell line WIZ03e-H9CAGhM3Dq comprising 24 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human WIZ03e-H9CAGhM3Dq 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 15000-STR sample submitted corresponds to the WIZ03e-H9CAGhM3Dq-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

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

X *WMR*

Digitally Signed on 10/14/19

██████████, 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.

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Native Product Sterility Report



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

SAMPLE #: 19100279
DATE RECEIVED: 03-Oct-19
TEST INITIATED: 08-Oct-19
TEST COMPLETED: 22-Oct-19

SAMPLE NAME / DESCRIPTION:	SCR5402i	WB67303	15040
	WIZ03e-H9CAGhM3Dq	WB67299	15043
	SCR54403i	DB42092	15044
	SCR54602i	DB42098	15045
	SCR56301i	DB42993	15046
	SCR56401i	DB42996	15047
	WC054i-333-1-2-06	WB67308	15051
	WC055i-333-1-2-09	WB67309	15052
	WC056i-333-1-2-12	WB67310	15053
	WC052i-FX08-24	WB67321	15056

UNIQUE IDENTIFIER: NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
10	1	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: Sample labeled as SCR5402i WB67303 15040 was positive.

REVIEWED BY _____

DATE 28 OCT 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

WiCell

FORM SOP-CH-048.01

Version A Edition 01

Sample Name	Result	Comments/Suggestions
WIZ03e-H9CAGhM3Dq-WB67299 15000 (78265)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC149 11SEP19AP (78266)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW021i-50001743-WB67214 14964 (78267)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC050i-17097-02-01-WB67288 15003 (78268)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW065i-40001296-WB67165 14963 (78269)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW066i-U2368-WB67169 14962 (78270)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 11SEP19KR (78271)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC054i-333-1-2-06-DB67304 15023 (78296)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC056i-333-1-2-12-DB67306 15025 (78297)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC055i-333-1-2-09-DB67305 15024 (78298)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: Molly Miles, Cell Culture Specialist

Reviewed by: Katie Remondini, Cell Culture Specialist

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A gel image is available upon request.

Verification of mCherry Reporter Protein

Cell Line-Lot Number	WIZ03e-H9CAGhM3Dq-WB67299
Sample ID	15074
Passage Number	41
Assay Date	07Oct19
Reported By/Date	MMM/JB 10Oct19
Reviewed By/Date	JB 10Oct19
QA Review & Processed By/Date	HEB 17Oct19
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 ☐

