

Thaw and Culture Details

Cell Line Name	Al09e-KCTD13a
WiCell Lot Number	DB66694
Provider	Allen Institute – Dr. Boaz Levi
Banked By	Allen Institute – Dr. Boaz Levi
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR [™] 1 Protocol
Passage Number	p55 These cells were cultured for 54 passages prior to freeze. Cells were modified at passage 36. The provider adds +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	07-November-2014
Vial Label	KCTD13 #9 H1 p55 NOV 7, 2014
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	Recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Consistent with STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

Testing Reported by Provider

The provider has stated the following testing and results were performed for this cell line. A link to the relevant publication is provided on the cell line specific web page on the WiCell website.

Test Description	Result
Karyotype by G-banding	Normal karyotype
Mycoplasma	Negative
Sterility	Negative

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The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at http://www.wicell.org/privacyandterms.



Approval Date	Quality Assurance Approval	
	5/8/2020	
25-January-2018	Х нев	
20 bandary 2010	HEB Quality Assurance Signed by: Bruner, Haley	

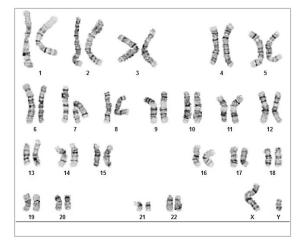
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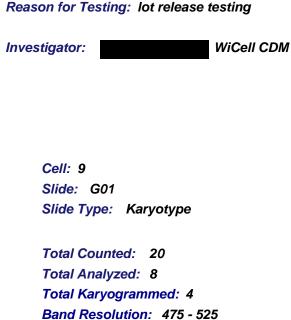
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Cell Line Gender: Male

Date Reported: Monday, February 26, 2018 Cell Line: Al09e-KCTD13a-DB66694 13449 Passage#: 55 Date of Sample: 2/21/2018 Specimen: Human ES Results: 46,XY





Interpretation:

This is a normal karyotype. No clonal abnormalities were detected at the stated band level of resolution.

Completed by:	MS, CG(ASCP)
Reviewed and Interpreted by:	, PhD, FACMG

A signed copy of this report is available upon request.

	_		
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 may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The results of this assay are for research use only. If the results of this assay are to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.

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HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) http://www.pathology.wisc.edu/research/trip

Sample Report: 13449-STR Sample Name on Tube: 13449-STR 63.6 ng/µL, (A260/280=1.90) Sample Type: Cells Cell Count: ~2 million cells **Requestor:** WiCell Research Institute Quality Department

Short Tandem Repeat

Analysis

Sample Date: N/A Receive Date: 02/26/18 Assay Date: 02/27/18 File Name: STR 180228 wmr

Report Date: 03/05/18

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	20,24
TPOX	6-13	8,11
D8S1179	7-18	12,13
vWA	10-22	15,17
Amelogenin	Х,Ү	X,Y
Penta_D	2.2, 3.2, 5, 7-17	10,13
CSF1PO	6-15	12,13
D16S539	5, 8-15	9,13
D7S820	6-14	8,12
D13S317	7-15	8,11
D5S818	7-16	9,11
Penta_E	5-24	10,12
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	17,18
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	28,32.2
TH01	4-9,9.3,10-11,13.3	9.3,9.3
D3S1358	12-20	15,15

<u>Results:</u> Based on the 13449-STR cells submitted by WiCell QA dated and received on 02/26/18, this sample (Label on Tube: 13449-STR) exactly matches the STR profile of the human stem cell line WA01 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human WA01 stem 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 13449-STR sample submitted corresponds to the WA01 stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

<u>Sensitivity:</u> Sensitivity limits for detection of STR polymorphisms unique to either this or other human stem cell lines is ~2-5%.

X RMB Digitally Signed on 03/06/18	X WMR Digitally Signed on 03/06/18
, 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: http://www.pathology.wisc.edu/research/trip/acknowledging TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a).



Native Product Sterility Report



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

18021403	SAMPLE #:
22-Feb-18	DATE RECEIVED:
23-Feb-18	TEST INITIATED:
09-Mar-18	TEST COMPLETED:

SAMPLE NAME / DESCRIPTION:	AI03e-DCXYFP DB66690 13456
	AI06e-SOX2YFP DB66691 13457
	AI07e-Timothy DB66692 13458
	AI08e-PAX6YFP DB66693 13459
	AI09e-KCTD13a DB66694 13460
	AI10e-KCTD13b DB66695 13461
	AI11e-OTX2YFP DB66696 13462
	AI12e-HOPX-CIT+/- DB66697 13463
	AI13e-HOPX-CIT+/+ DB66698 13464
	CREM022i-SS32-1 WB66732 13466
	iPS(IMR90)-1 WB66731 13467
	STAN004i-147-1 DB31065 13468
	STAN005i-147-2 DB31088 13469
	STAN024i-29-1 DB30891 13470
	STAN025i-29-2 DB30897 13471
	WC034i-SOD1-D90A WB66734 13472
	WC035i-SOD1-D90D WB66733 13473
	WISC015i-SC7 WB66735 13474
	WC008i-C603-4 WB66741 13475
	WC034i-SOD1-D90A WB66740 13484
UNIQUE IDENTIFIER:	NA
PRODUCT REGISTRATION:	Other: Human iPS cells

TEST RESULTS:	# Tested	# Positives (Growth)	- Control
	20	0	3 Negatives

TEST SUMMARY:

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

REFERENCE:

METHOD VALIDATION / PD #:

Processed according to LAB-003: Sterility Test Procedure 000053

Native Product Sterility Report



TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NA # 18021403

REVIEWED BY Servad

DATE 22 MARIS

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.



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing February 22, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB BD Monolight 180

		Reading A		Α	Reading B		В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	AI09e-KCTD13a-DB666694 13449	303	319	311	107	99	103	0.33	Negative	
2	Positive (+) Control	385	389	387	14131	14227	14179	36.64	Positive	
3	Negative (-) Control	656	670	663	81	73	77	0.12	Negative	

