




Thaw and Culture Details

Cell Line Name	STAN054i-149-2
WiCell Lot Number	WB66669
Parent Material	STAN054i-149-2-DB30942
Provider	Stanford University – Laboratory of Dr. Marlene Rabinovitch
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: TeSR™-E8™
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p15 These cells were cultured for 14 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialied	13-November-2017
Vial Label	STAN054i-149-2 p15 WB66669
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	Pass
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	Consistent with known profile	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

Approval Date	Quality Assurance Approval
21-December-2017	<div style="text-align: right;">12/21/2017</div>  <small>X JKG JKG Quality Assurance Signed by: Gay, Jenna</small>

Date Reported: Thursday, December 07, 2017

Cell Line Gender: Female

Cell Line: STAN054i-149-2-WB66669 13131

Reason for Testing: lot release testing

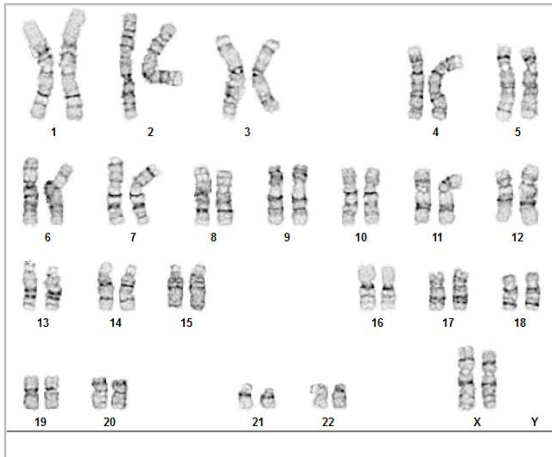
Passage#: 15

Date of Sample: 12/5/2017

Investigator: [REDACTED]

Specimen: Human IPSC

Results: 46,XX



Cell: 44

Slide: G02

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 400 - 475

Interpretation:

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

Completed by: [REDACTED]

Reviewed and Interpreted by: [REDACTED]

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.

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.

Sample Report:

13131-STR

Sample Name on Tube: 13131-STR

95.8 ng/μL, (A260/280=1.94)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute

Quality Department

Sample Date: N/A

Receive Date: 12/11/17

Assay Date: 12/12/17

File Name: STR 171213 wmr

Report Date: 12/15/17

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 13131-STR cells submitted by WiCell QA dated and received on 12/11/17, this sample (Label on Tube: 13131-STR) defines the STR profile of the human stem cell line STAN054i-149-2 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human STAN054i-149-2 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 13131-STR sample submitted corresponds to the STAN054i-149-2 stem cell line and was not contaminated with any other human stem 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 stem cell lines is ~2-5%.

X_{RMB}

Digitally Signed on 12/15/17

X_{WMR}

Digitally Signed on 12/15/17

TRIP Laboratory, Molecular

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

CORRECTED REPORT

SAMPLE #: 17111201
DATE RECEIVED: 16-Nov-17
TEST INITIATED: 20-Nov-17
TEST COMPLETED: 04-Dec-17

SAMPLE NAME / DESCRIPTION: iPS(Foreskin)-1-WB66667 13067
UCSD234i-SAD2-3-WB66668 13068
UCSD193i-106-1-WB57372 13069
UCSD178i-17-3-WB61149 13071
UCSD165i-97-1-WB64665 13072
WISC013i-SCID-DB66578 13073
WISC012i-SCA-DB66579 13074
UCSD067i-19-1-WB64878 13075
UCSD166i-98-1-WB59911 13076
UCSD210i-112-1-WB63447 13077
UCSD208i-111-1-WB58973 13079
UCSD160i-92-1-WB61150 13080
UCSD189i-28-1-WB60070 13081
UCSD190i-28-2-WB58714 13082
UCSD191i-13-1-WB65029 13083
UCSD196i-30-1-WB57099 13084
UCSD197i-30-2-WB54408 13085
UCSD202i-108-1-WB57850 13086
UCSD215i-113-1-WB59923 13087
STAN054i-149-2-WB66669 13088

UNIQUE IDENTIFIER: NA
PRODUCT REGISTRATION: Human iPS Cells

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	1	2 Negative

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

Native Product Sterility Report



METHOD VALIDATION / PD #: 000053
TEST METHODOLOGY: USP - Direct Transfer

**CORRECTED
REPORT**

COMMENTS: Report modified to correct the Sample Name / Description and # Positives.

Sample labeled UCSD208i-111-1-WB58973 13079 was positive in TSB and FTG.
Sample #17111201

REVIEWED BY

A blue ink handwritten signature, appearing to be "C. K.", written over a horizontal line.

DATE

A blue ink handwritten date, "12/25/17", written over a horizontal line.

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
Lot Release Testing
December 07, 2017

FORM SOP-QU-004.01
Version G Edition 02
Reported by: KR
Reviewed by: JB
BD Monolight 180

#	Sample Name	Reading A		A Ave	Reading B		B Ave	Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2		RLU1	RLU2				
1	STAN054i-149-2-WB66669 13131	246	258	252	86	79	82.5	0.33	Negative	
2	Positive (+) Control	301	290	295.5	14865	15003	14934	50.54	Positive	
3	Negative (-) Control	473	467	470	68	63	65.5	0.14	Negative	

