

Thaw and Culture Details

Cell Line Name	UCSD116i-71-1							
WiCell Lot Number	WB66814							
Provider	University of California, San Diego – Dr. Kelly Frazer							
Banked By	WiCell							
Thaw and Culture WiCell recommends thawing 1 vial into 4 wells of a 6 well plate. Recommendations								
Culture Platform	Feeder Independent							
	Medium: mTeSR™1							
	Matrix: Matrigel®							
Protocol	WiCell Feeder Independent mTeSR™1 Protocol							
Passage Number	p23 These cells were cultured for 22 passages prior to freeze and post reprogramming. 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 23.							
Date Vialed	09-June-2018							
Vial Label	UCSD116i-71-1 p23 WB66814							
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

rooting ronormod by virgon									
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, ≤ 30% Differentiation and recoverable attachment after passage	Pass					
Identity by STR	entity by STR UW Translational Research Initiatives in Pathology Laboratory		Defines profile	Pass					
Sterility	Steris	ST/07	Negative	Pass					
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass					

Testing Reported by Provider

The Provider stated that some or all of the additional analyses listed below may have been performed for this cell line. For more information, publication and dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

- Illumina® HumanCoreExome BeadChip Array
- RNA-Sea
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)



Approval Date	Quality Assurance Approval			
13-August-2018	8/13/2018 X JKG WG Quality Assurance Signed by, Gay, Jenna			



Chromosome Analysis Report: 072157

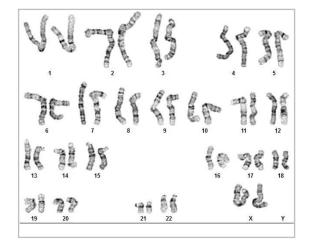
Date Reported: Tuesday, June 26, 2018

Cell Line: UCSD116i-71-1-WB66814 13809

Passage#: 23

Date of Sample: 6/19/2018 Specimen: Human IPS

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: lot release testing

Investigator: WiCell

Cell: 91 Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 500 - 575

Interpretation:

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

Completed by: , 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 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

HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

WiCell® info@wicell.org (888) 204-1782

Sample Report:

13809-STR

Sample Name on Tube: 13809-STR

 $84.1 \text{ ng/}\mu\text{L}, (A260/280=1.81)$

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 06/25/18 Assay Date: 06/26/18

File Name: STR 180627 wmr

Report Date: 07/05/18

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	Identifying						
TPOX	6-13	information has been redacted to						
D8S1179	7-18	protect donor						
vWA	10-22	confidentiality. If						
Amelogenin	X,Y	more information						
Penta_D	2.2, 3.2, 5, 7-17	is required,						
CSF1PO	6-15	please, contact WiCell's Technical						
D16S539	5, 8-15							
D7S820	6-14	Support.						
D13S317								
D5S818								
Penta_E	5-24	-						
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	-						
D21S11								
TH01								
D3S1358	12-20							

<u>Results:</u> Based on the 13809-STR cells submitted by WiCell QA dated and received on 06/25/18, this sample (Label on Tube: 13809-STR) defines the STR profile of the human stem cell line UCSD116i-71-1 comprising 30 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD116i-71-1 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 13809-STR sample submitted corresponds to the UCSD116i-71-1 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 07/05/18

Note that the second second signal is a second sec

Native Product Sterility Report



SAMPLE #:

18061640

504 S Rosa Rd, Rm 101

WiCell

DATE RECEIVED:

21-Jun-18

Madison, WI 53719

TEST INITIATED:

26-Jun-18

TEST COMPLETED:

10-Jul-18

SAMPLE NAME / DESCRIPTION:

UCSD116i-71-1-WB66814 13810

UCSD034i-4-3-WB66852 13811

CREM005i-SS2-1GAG-DB66769 13812 CREM037i-SA53-1-DB48093 13813 CREM042i-SA209-1-DB48102 13814 CREM044i-SA50-1-DB48109 13815 CREM046i-SA138-1-DB48115 13816 CREM047i-SA170-1-DB48118 13817 CREM051i-BR25-1-DB66770 13818 CREM052i-BR29-1-DB66771 13819

UNIQUE IDENTIFIER:

PRODUCT REGISTRATION:

Other: Human IPS cells

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

METHOD VALIDATION / PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NA

REVIEWED BY

DATE 16546 18

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 June 22, 2018

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

		Read	ding A A Reading B		В	Ratio				
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD116i-71-1-WB66814 13809	250	247	248.5	143	156	149.5	0.60	Negative	
2	Positive (+) Control	490	497	493.5	24277	24371	24324	49.29	Positive	
3	Negative (-) Control	662	667	664.5	79	75	77	0.12	Negative	

