

# Thaw and Culture Details

Cell Line Name	UCSD078i-1-9
WiCell Lot Number	WB60041
Provider	University of California, San Diego – Dr. Kelly Frazer
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR <sup>™</sup> 1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR <sup>™</sup> 1 Protocol
Passage Number	p19 These cells were cultured for 18 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 Vialed	21-February-2017
Vial Label	UCSD078i-1-9 p19 WB60041
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			
WiCell		SOP-CH-003	Expected karyotype	See Report			
	Results: 46,XX Nonclona						
		normal karyotype; no	clonal abnormalities were detected	at the stated			
Karyotype by G-banding	band level of resolution.						
ital jetype by a ballang			contains a chromosomal aberration				
			An additional twenty cells were exar				
			onclonal findings likely result from te	echnical artifact,			
	but may be due to a developing clonal abnormality or to low-level mosaicism.						
			≥ 15 Undifferentiated Colonies,				
Post-Thaw Viable Cell	WiCell	SOP-CH-305	≤ 30% Differentiation and	Pass			
Recovery	Widen		recoverable attachment after	1 435			
			passage				
Identity by STR	UW Translational	PowerPlex 16 HS					
	Research Initiatives in	System by	Defines profile	Pass			
	Pathology Laboratory	Promega					
Sterility	Steris	ST/07	Negative	Pass			
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass			

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# **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-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	Quality Assurance Approval			
23-March-2017	9/12/2018 XIG Quality Assurance Signed by: Gay, Jenna			

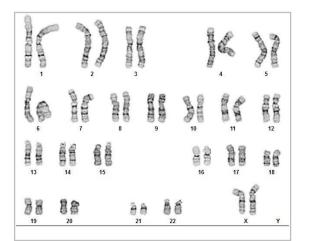


Date Reported: Friday, June 15, 2018 Cell Line: UCSD078i-1-9-WB60041 13724 Passage#: 19 Date of Sample: 6/7/2018 Specimen: Human IPS Results: 46,XX Cell Line Sex: Female Reason for Testing: lot release testing

Investigator: , WiCell

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#### Nonclonal Findings: 47,XX,+8



Cell: 49
Slide: G03
Slide Type: Karyotype
Total Counted: 40

Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 400 - 550

#### Interpretation:

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

There is a nonclonal finding, listed above, which contains a chromosomal aberration (trisomy 8) recurrently acquired in cultures of this cell type. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings likely result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

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

Sample Report: 13724-STR Sample Name on Tube: 13724-STR 76.6 ng/µL, (A260/280=1.80) Sample Type: Cells Cell Count: ~2 million cells

**Requestor:** WiCell Research Institute **Quality Department** 

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

Sample Date: N/A **Receive Date:** 06/18/18 Assay Date: 06/20/18 File Name: STR 180622 wmr **Report Date:** 06/27/18

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 information has
ТРОХ	6-13	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 - <u>WiCell's Technical</u>
D16S539	5, 8-15	Support.
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 13724-STR cells submitted by WiCell QA dated and received on 06/18/18, this sample (Label on Tube: 13724-STR) defines the STR profile of the human stem cell line UCSD078i-1-9 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD078i-1-9 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 13724-STR sample submitted corresponds to the UCSD078i-1-9 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 06/28/18	X WMR Digitally Signed on 06/28/18
, BA TRIP Laboratory Molecular	PhD, Director / Co-Director

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).

# Short Tandem Repeat

Analysis



# Native Product Sterility Report



		SAMPLE #:	17101392
WiCell		DATE RECEIVED:	19-Oct-17
504 S Rosa Rd, Rm 101		TEST INITIATED:	20-Oct-17
Madison, WI 53719		TEST COMPLETED:	03-Nov-17
SAMPLE NAME / DESCRIPTION:	UCSD061i-65-1-WB60393 12989		
	MCW075i-U2096-WB66541 12990		
	STAN054i-149-2-DB30942 12991		
	UCSD076i-1-7-WB61578 12992		
	UCSD078i-1-9-WB60041 12993		
	UCSD020i-3-8-WB63471 12994		
	UCSD021i-3-9-WB63625 12995		
	UCSD181i-3-1-WB59924 12996		
	UCSD182i-3-2-WB60071 12997		
	UCSD038i-24-2-WB57681 12998		
UNIQUE IDENTIFIER:	NA		
PRODUCT REGISTRATION:	Human iPS cells		
TEST RESULTS:	# Positives		

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: METHOD VALIDATION / PD #: TEST METHODOLOGY:

Processed according to LAB-003: Sterility Test Procedure 000053 USP - Direct Transfer

COMMENTS: NA soll **REVIEWED BY** 0

DATE 03NOU17

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 06, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: DF BD Monolight 180

		Read	ing A	Α	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	<b>Comments/Suggestions</b>
1	UCSD078i-1-9-WB60041 13724	331	339	335	99	95	97	0.29	Negative	
2	Positive (+) Control	514	506	510	23265	23449	23357	45.80	Positive	
3	Negative (-) Control	928	979	953.5	88	92	90	0.09	Negative	

