

Thaw and Culture Details

Cell Line Name	PENN156i-M8-2						
WiCell Lot Number	DB34864						
Provider	University of Pennsylvania – Dr. Daniel Rader						
Banked By	Penn Institute for Regenerative Medicine iPS Core Facility						
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.						
Culture Platform	Feeder Dependent						
	Medium: hESC Medium (KOSR)						
	Matrix: MEF						
Protocol	WiCell Feeder Dependent Protocol						
Passage Number	p18 These cells were cultured for 18 passages prior to freeze and post colony picking. Therefore, plated cells at thaw should be labeled passage 19.						
Date Vialed	14-September-2015						
Vial Label	iPS-M8 Sev2 p18 9/14/15 ZL						
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	Recoverable attachment after		Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	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.

- SNP microarray
- Flow Cytometry (Tra1-60 and SSEA-4)
- Differentiation into hepatocytes
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)



Approval Date	Quality Assurance Approval			
27-June-2016	7/16/2018 X JKG UKG Quality Assurance Signed by Gay, Jenna			



Chromosome Analysis Report: 071170

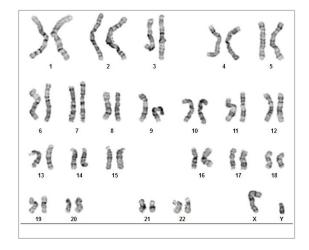
Date Reported: Monday, April 09, 2018

Cell Line: PENN156i-M8-2-DB34864 13594

Passage#: 20

Date of Sample: 3/30/2018 Specimen: Human IPS

Results: 46,XY



Cell Line Gender: Male

Reason for Testing: Lot release testing

Investigator: , WiCel

Cell: 5

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 350 - 500

QC Review By: ____

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, FACMGG

A signed copy of this report is available upon request.

Limitations:	This assay allows for microscopic	visualization of numerical and	d structural chromosome abnormalities.	The size of stru	ctural abnormality th	at can be detected
is >3-10Mb,	dependent upon the G-band reso	plution obtained from this spec	imen. For the purposes of this report, b	and level is defin	ed as the number of	G-bands per
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Sent By:____ Sent To:____

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.



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:

13594-STR

Sample Name on Tube: 13594-STR

 $111.9 \text{ ng/}\mu\text{L}, (A260/280=1.80)$

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 04/09/18 Assay Date: 04/11/18

File Name: STR 180411 wmr

Report Date: 04/16/18

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						
TPOX	6-13	been redacted to						
D8S1179	7-18	protect donor						
vWA	10-22	confidentiality. If						
Amelogenin	X,Y	more information is required,						
Penta_D	2.2. 3.2. 5. 7-17 is							
CSF1PO	6-15	please, contact WiCell's Technical						
D16S539	16S539 5, 8-15							
D7S820	6-14	<u>очроти</u>						
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							

<u>Results:</u> Based on the 13594-STR cells submitted by WiCell QA dated and received on 04/11/18, this sample (Label on Tube: 13594-STR) defines the STR profile of the human stem cell line PENN156i-M8-2 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human PENN156i-M8-2 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 13594-STR sample submitted corresponds to the PENN156i-M8-2 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 04/18/18

X WMR Digitally Signed on 04/18/18

BA
TRIP Laboratory, Molecular

TRIP Laboratory, Molecular

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



SAMPLE #:

18031509

WiCell

DATE RECEIVED:

22-Mar-18

504 S Rosa Rd, Rm 101 Madison, WI 53719 TEST INITIATED:

26-Mar-18

TEST COMPLETED:

09-Apr-18

SAMPLE NAME / DESCRIPTION:

MCW047i-U2234 WB66742 13573 PENN105i-342-5 DB34860 13574 PENN144i-M7-16 DB36290 13575 PENN148i-M8-3 DB35007 13576 PENN150i-M7-9 DB35003 13577 PENN156i-M8-2 DB34864 13578 WISC015i-SC7 WB66749 13579 CREM032i-SS48-1 WB66748 13580

UCSD030i-23-2 WB58975 13581 UCSD170i-22-3 WB60774 13582

UNIQUE IDENTIFIER:

NA

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:

Reported as, per packing slip

REVIEWED BY

DATE 10 APRIS

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 March 22, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB BD Monolight 180

		Read	ling A A Reading		ing B	В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	PENN156i-M8-2-DB34864 13594	393	390	391.5	137	142	139.5	0.36	Negative	
2	Positive (+) Control	485	530	507.5	11283	11743	11513	22.69	Positive	
3	Negative (-) Control	826	858	842	107	103	105	0.12	Negative	

