

Thaw and Culture Details

Cell Line Name	PENN134i-61-26						
WiCell Lot Number	DB35028						
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 2 wells 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	p19 These cells were cultured for 19 passages prior to freeze and post colony picking. Therefore, plated cells at thaw should be labeled passage 20.						
Date Vialed	08-July-2015						
Vial Label	iPS-61-1559-060 Sev26 p19 07-8-15 HE						
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	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	5/18/2018 X JKG JKG Qualify Assurance Signed by Gay, Jenna			



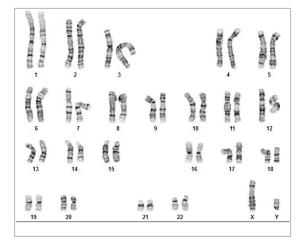
Chromosome Analysis Report: 071554

Date Reported: Monday, May 07, 2018
Cell Line: PENN134i-61-26-DB35028 13641

Passage#: 21

Date of Sample: 4/30/2018 Specimen: Human IPS

Results: 46,XY



Cell Line Gender: Male

Reason for Testing: Lot release testing

Investigator: , WiCell

Cell: 6

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 550

Interpretation:

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

Completed by: Reviewed and Interpreted by: A signed copy of this report is available.	ailable upon req	, PhD, FACMGG luest.	
Date:	Sent Bv:	Sent To:	QC Review Bv:

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.



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:

13641-STR

Sample Name on Tube: 13641-STR

 $66.4 \text{ ng/}\mu\text{L}, (A260/280=1.74)$

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 04/30/18 Assay Date: 05/01/18

File Name: STR 180502 wmr

Report Date: 05/09/18

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	POX 6-13 8S1179 7-18								
D8S1179									
vWA	10-22	confidentiality. If more information							
Amelogenin	logenin X,Y								
Penta_D	2.2, 3.2, 5, 7-17	is required,							
CSF1PO	6-15	please, contact WiCell's Technical							
D16S539	5, 8-15	Support.							
D7S820	6-14	<u> </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 13641-STR cells submitted by WiCell QA dated and received on 04/30/18, this sample (Label on Tube: 13641-STR) defines the STR profile of the human stem cell line PENN134i-61-26 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human PENN134i-61-26 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 13641-STR sample submitted corresponds to the PENN134i-61-26 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 05/10/18

X WMR Digitally Signed on 05/10/18

BA
TRIP Laboratory, Molecular

Digitally Signed on 05/10/18

WMR Digitally Signed on 05/10/18

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Sterility Report

Biotest Laboratories, Inc. Making life-saving products possible

WiCell Research Institute, Inc. **BIOTEST SAMPLE #** 16080730 WiCell Quality Assurance 504 South Rosa Road, Room 101 **VALIDATION #** NG Madison, WI 53719 **TEST PURPOSE** NG **PRODUCT** WA09-RB40917 11779, WA09-RB40918 11780, UCSD223i-NDC1-1-DB26652 11781, STAN002i-161-1-DB31139 11782, PENN001i-87-2-DB36483 11783, PENN002i-442-1-DB35052 11784, PENN066i-427-6-DB35047 11785, PENN074i-415-3-DB35036 11788, PENN134i-61-26-DB35028 11786, WA25-WB40296 11787 PRODUCT LOT NA STERILE LOT **BILOT** NA NA STERILIZATION LOT BI EXPIRATION DATE NA NA STERILIZATION DATE DATE RECEIVED NA 2016-08-11 STERILIZATION METHOD EO **TEST INITIATED** 2016-08-11 SAMPLING BLDG / ROOM NA **TEST COMPLETED** 2016-08-25 REFERENCE Processed according to LAB-003: Sterility Test Procedure Ten (10) products were divided between 40 mL TSB and 40 mL FTG. The sample was then cultured at 20-25 C and 30-35 C respectively and was monitored for a minimum of 14 days. **⊠** USP BI Manufacturers Specifications ☐ Other **RESULTS** # POSITIVES #TESTED POSITIVE CONTROL **NEGATIVE CONTROL** Sterile 0 10 NA 2 Negatives **COMMENTS**

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. Liability is limited to the costs of the tests.



DATE 20AUGIL



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing April 16, 2018

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

		Reading A		A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	PENN134i-61-26-DB35028 13641	524	536	530	226	215	220.5	0.42	Negative	
2	Positive (+) Control	427	435	431	23689	23939	23814	55.25	Positive	
3	Negative (-) Control	669	659	664	80	83	81.5	0.12	Negative	

