



Thaw and Culture Details

Cell Line Name	PENN006i-149-1
WiCell Lot Number	DB36519
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.
Protocol	WiCell Feeder Dependent Protocol
Culture Platform Prior to Freeze	Feeder Dependent
	Medium: hESC Medium (KOSR)
	Matrix: MEF
Passage Number	p12 These cells were cultured for 12 prior to freeze and post colony picking. Therefore, plated cells at thaw should be labeled passage 13.
Date Viald	18-July-2015
Vial Label	iPS-149 SEV1 P12 7/18/2015 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-49	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-99	Recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-79	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 (MEGA^{EX})



Approval Date	Quality Assurance Approval
23-June-2016	<p style="text-align: right;">3/11/2021</p> <p>X JKG</p> <p><small>WiCell Quality Assurance Signed by: Gay, Jenna</small></p>

Date Reported: Thursday, February 25, 2021

Cell Line Sex: Female

Cell Line: PENN006i-149-1-DB36519

Reason for Testing: LOT_RELEASE

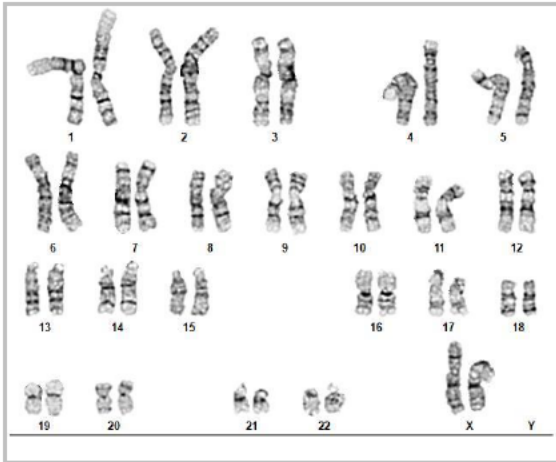
Submitted Passage #: 13

Date of Sample: 2/19/2021

Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human iPSC

Results: 46,XX



Cell: 5

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 375 - 425

Interpretation:

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

Completed by: [Redacted] CG(ASCP)

Reviewed and Interpreted by: [Redacted] PhD, FACMG

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

Requestor: WiCell Stem Cell Bank, WiCell
 Samples Received: 18Feb21, 19Feb21
 STR Amplification Date: 22Feb21

Form SOP-89.01
 Version 3.0

Sample Name	PENN005i-35-3-DB36317 p14	JHU042i-WB67618 p11	WA09-RB67629 p30	WA09-RB67628 p30	WA09-RB67626 p29	PENN006i-149-1-DB36519 p13
Label on tube	84925	84926	84930	84931	84932	84933
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org					
TPOX						
D8S1179						
vWA						
Amelogenin						
Penta_D						
CSF1PO						
D16S539						
D7S820						
D13S317						
D5S818						
Penta_E						
D18S51						
D21S11						
TH01						
D3S1358						
Allelic Polymorphisms	26	26	24	24	24	24
Matches*		84413	See Matches Comment	See Matches Comment	See Matches Comment	
Comments						

**Note: The STR profile of the following sample is an exact match for the given sample/samples.*



Short Tandem Repeat

Form SOP-89.01

Version 3.0

Requestor: WiCell Stem Cell Bank, WiCell

Samples Received: 18Feb21, 19Feb21

STR Amplification Date: 22Feb21

Results: The genotypic profiles comprise a range of 24-26 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: 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. These results suggests that the cells submitted correspond to the cell lines as named and were not contaminated with any other human 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 cell lines is ~2-5%.

Matches: Samples 84930, 84931, and 84932 are exact matches to each other and to 14630, 74319, 74844, 74924, 74925, 83593, 84032, 84034, 84095, 84476, 84477, and 84656.

2/23/2021

2/23/2021

2/24/2021

X

[Redacted]

Tech #1
Characterization
Signed by [Redacted]

X

[Redacted]

Tech #2
Characterization
Signed by: [Redacted]

X

[Redacted]

QA Review
Quality Assurance
Signed by: [Redacted]

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Raw data is available upon request.

Native Product Sterility Report



WiCell
504 S Rosa Road, Rm 101
Madison, WI 53719

SAMPLE #: 19102854
DATE RECEIVED: 31-Oct-19
TEST INITIATED: 11-Nov-19
TEST COMPLETED: 25-Nov-19

SAMPLE NAME / DESCRIPTION: STAN100i-108C4 WB67324 15096
WC058i-108-1-2-16 WB67325 15097
STAN255i-649C1 DB44436 15098
STAN256i-649C2 DB44439 15099
PENN005i-35-3 DB36317 15100
PENN006i-149-1 DB36519 15101
PENN007i-765-3 DB36286 15102
PENN008i-77-5 DB36507 15103
PENN012i-93-2 DB34713 15104
PENN013i-72-1 DB35089 15105

UNIQUE IDENTIFIER: NA

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

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY

DATE

26 NOV 19

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. Results applied to samples as received.



Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell

16Feb21

FORM SOP-83.01

Version 2.0

Sample Name	Result	Interpretation
PENN005i-35-3-DB36317 p.14 (84799)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN006i-149-1-DB36519 p.13 (84800)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN31i-33363.D.3C2-WB67625 p.24 (84804)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC149 11FEB21AP (84805)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC169 11FEB21MMM (84806)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 11FEB21KR 1 OF 2 (84808)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 11FEB21KR 2 OF 2 (84836)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED], Assistant Research Specialist

Reviewed by: [REDACTED], Assistant Research Specialist

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A gel image is available upon request.