



Certificate of Analysis

Thaw and Culture Details

Cell Line Name	PACSLi002-A	
WiCell Lot Number	DB68805	
Provider/Client	PACS2 Research Foundation	
Banked By	iXCells Biotechnologies, Inc.	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 6 wells of a 6 well plate using mTeSR™ Plus and Matrigel®. WiCell recommends thawing using ROCK Inhibitor for best results.	
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: mTeSR™ Plus	Matrix: Matrigel®
Passage Number	p7 Cells were cultured for 6 passages prior to freeze and post reprogramming. Plated cells at thaw should be labeled passage 7.	
Date Vialled	23-October-2024	
Vial Label	PACSLi002-A hiPSC Clone1-P7 Size: ~1 million cells/vial Store at: Liquid nitrogen Lot: SO2408341-C1-P7 Date: 10/23/2024	
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.	



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Results

Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	Results: 46,XY Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.			
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	Recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega™	Defines STR profile of deposited cell line	See Report
Mycoplasma	WiCell	PCR	Amplification of mycoplasma specific DNA detected with negative result	Pass
Sterility	Steris	Native Product Direct Transfer using FTM and TSB (ST/07)	Negative for growth following 14 days of culture	Pass



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Testing Reported by Provider

Additional information about this cell line is provided on the cell line specific web page on the WiCell website.

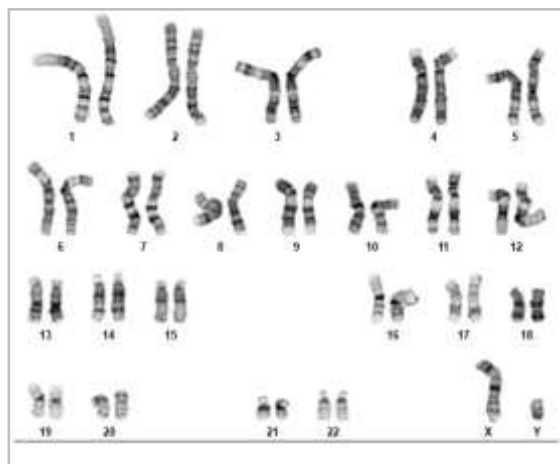
Test Description	Result
Hepatitis A	Negative
Hepatitis B	Negative
Hepatitis C	Negative
HIV1	Negative
HIV2	Negative
HTLV 1	Negative
HTLV 2	Negative
Mycoplasma	Negative
Karyotype	Normal
Immunofluorescent Staining	90% Oct4 positive
Immunofluorescent Staining	90% Nanog positive
Immunofluorescent Staining	85% TRA-1-60 positive

Approval Date	WiCell Quality Assurance Approval
06-November-2025	11/6/2025 X HEB HEB WiCell Quality Assurance Signed by: Bruner, Haley

The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at <http://www.wicell.org/privacyandterms>.

Date Reported: June 24, 2025
Cell Line: PACSIII002-A-DB68805
Submitted Passage #: 8
Date of Sample: 6/18/2025
Specimen: Human IPSC
Results: 46,XY

Cell Line Sex: Male
Reason for Testing: LOT_RELEASE
Investigator: WiCell Stem Cell Bank, WiCell



Cell: 39
Slide: G01
Slide Type: Karyotype
Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 450 - 475

Interpretation:

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

Completed by: Davena Lira, CG(ASCP)
Reviewed and Interpreted by: Justin Schleede, PhD, FACMG

For internal use only

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

Sample Receipt Date: 18Jun25

STR Amplification Date: 08Jul25

Form SOP-89.01

Version 15.0

Sample Name	PACSLi002-A-DB68805 p8
WiCell CTR No. ¹	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org
FGA	
TPOX	
D8S1179	
vWA	
Amelogenin	
Penta_D	
CSF1PO	
D16S539	
D7S820	
D13S317	
D5S818	
Penta_E	
D18S51	
D21S11	
TH01	
D3S1358	
Allelic Polymorphisms	
Matches ²	
Comments	

¹ CTR No.: Characterization Test Request Number; also known as a laboratory accessioning number.

² The STR profile of the sample(s) listed are a 100% match for the given sample unless otherwise specified.



Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell

Sample Receipt Date: 18Jun25

STR Amplification Date: 08Jul25

Form SOP-89.01

Version 15.0

Assay Description: Short Tandem Repeat (STR) analysis is performed using the PowerPlex® 16 HS System by Promega™. Results are reported as 13 CODIS STR markers, Amelogenin for sex determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 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 suggest 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 ~2-4%.

7/11/2025	7/10/2025	7/15/2025
X Steph Dos Santos	X Michael Mussar	X Emily Weber
Tech #1	Tech #2	QA Review
Characterization	Characterization	Quality Assurance
Signed by: Dos Santos, Stephany	Signed by: Mussar, Michael	Signed by: Weber, Emily

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Mycoplasma Assay Report

PCR-based assay performed by WiCell
WiCell Stem Cell Bank, WiCell

25Jun25

Form SOP-83.01

Version 7.0

Sample Name	Result	Interpretation
PACSHi003-A-DB68806 p9 (107970)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7V7-WB68815 p40 (107971)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7V4-WB68879 p39 (108053)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PACSHi002-A-DB68805 p8 (108054)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7VM-DB68437 p31 (108087)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7VP-DB68423 p28 (108088)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_D3YC-DB68521 p29 (108089)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7VJ-DB68460 p40 (108090)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 839 23Jun25 MEFs 1/1 (108129)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7VL-DB68435 p31 (108130)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7VQ-DB68425 p29 (108131)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Assay Description

Sample is tested for presence of mycoplasma using EZ-PCR™ Mycoplasma Detection Kit (Sartorius).

6/27/2025	6/27/2025	6/27/2025
X Steph Dos Santos	X Jacob Chow	X Dawn Graham
Tech #1	Tech #2	QA Review
Characterization	Characterization	Quality Assurance
Signed by: Dos Santos, Stephany	Signed by: Chow, Jacob	Signed by: Graham, Dawn

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A gel image is available upon request.

Native Product Sterility Report



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

CORRECTED REPORT

SAMPLE #: 25080540
DATE RECEIVED: 14-Aug-25
TEST INITIATED: 15-Aug-25
TEST COMPLETED: 29-Aug-25

SAMPLE NAME / DESCRIPTION:

CVCL_C7VF-WB69010
CVCL_C7VD-WB69009
BCHi014-A-9-WB69007
CVCL_C7VL-WB68996
CVCL_C7VG-WB68944
CVCL_C7VJ-WB69026
CVCL_C7UV-WB69028
BCHi014-A-10-WB69032
CVCL_C7UX-WB69034
CVCL_C7UW-WB69046
CVCL_C7VI-WB69048
WA14-WB69050
EIFIIIi001-A-DB68807
EIFIIIi002-A-DB68808
PACSIi002-A-DB68805
PACSIi003-A-DB68806

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
16	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
16	TSB	40	20-25	14
16	FTG	40	30-35	14

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

Native Product Sterility Report



COMMENTS: Report revised due to updated Sample Name/Description information.

CORRECTED REPORT

AUTHORIZED BY Lee Vang

DATE 09 Oct 25

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.