




Certificate of Analysis

Thaw and Culture Details

Cell Line Name	CVCL_C7V4	
WiCell Lot Number	WB68879	
Provider/Client	Albert Einstein College of Medicine – Dr. Frank Soldner	
Banked By	WiCell	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate using iSCORE 01 medium and MEF. WiCell recommends thawing using ROCK Inhibitor for best results.	
Protocol	WiCell Feeder Based (MEF) Protocol 01 for Culture of MJFF iSCORE Lines	
Culture Platform Prior to Freeze	Medium: iSCORE 01 medium	Matrix: MEF
Passage Number	p35 Cells were cultured for 34 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 35.	
Date Vialled	12-May-2025	
Vial Label	CVCL_C7V4 p35 WB68879 Store at -135C or colder Made in United States Research Use Only 	
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.	



Certificate of Analysis

Results

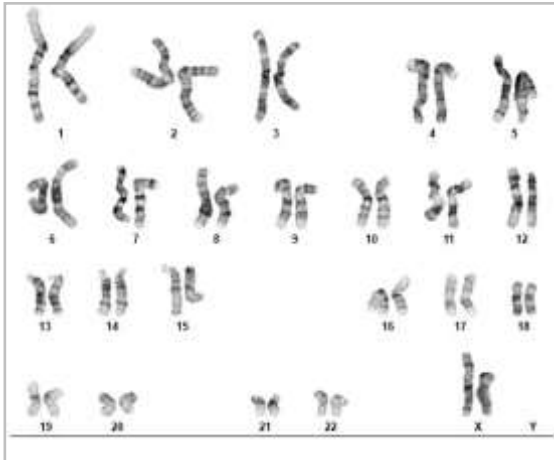
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	Results: 46,XX Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.			
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega™	Consistent with 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

Approval Date	WiCell Quality Assurance Approval
18-December-2025	<div>12/18/2025</div> <div>X HEB</div> <div>HEB</div> <div>WiCell Quality Assurance</div> <div>Signed by: Brunen, Haley</div>

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: July 1, 2025
Cell Line: CVCL_C7V4-WB68879
Submitted Passage #: 39
Date of Sample: 6/18/2025
Specimen: Human ESC
Results: 46,XX

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



Cell: 4
Slide: G03
Slide Type: Karyotype
Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 400 - 475

Interpretation:

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

Completed by: Kate Bird, CG(ASCP)
Reviewed and Interpreted by: Xiangqiang Shao, 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: 26Jun25

Form SOP-89.01

Version 15.0

Sample Name	CVCL_C7V4-WB68879 p39
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	28
Matches ²	See Results
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: 26Jun25

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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 28 allelic polymorphisms across the 15 STR loci analyzed. Sample 108053 is a 100% match to each other and to 105942, 107124, 107305, 107471, 107640, 107881, 107917, 107916, 107971, 105684, and additional profiles. Additional matches can be provided upon request.

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%.

7/3/2025	7/3/2025	7/7/2025
<div>X Steph Dos Santos</div>	<div>X Kaylie Haddix</div>	<div>X Hunter Hefti</div>
Tech #1 Characterization Signed by: Dos Santos, Stephany	Tech #2 Characterization Signed by: Haddix, Kaylie	QA Review Quality Assurance Signed by: Hefti, Hunter

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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

SAMPLE #: 25060863
DATE RECEIVED: 26-Jun-25
TEST INITIATED: 27-Jun-25
TEST COMPLETED: 11-Jul-25

SAMPLE NAME / DESCRIPTION:

BCHi018-A-9-DB68713
BCHi019-A-10-DB68716
BCHi019-A-11-DB68717
BCHi019-A-9-DB68715
BCHi020-A-5-DB68718
BCHi020-A-8-DB68719
BCHi020-A-9-DB68720
EIFIIIi001-A-DB68807
EIFIIIi002-A-DB68808
PACSIi002-A-DB68805
PACSIi003-A-DB68806
CVCL_C7V1-WB68881
CVCL_C7V2-WB68887
CVCL_C7V3-WB68899
CVCL_C7V4-WB68879
CVCL_C7V5-WB68880
CVCL_C7V6-WB68883
CVCL_C7V7-WB68815
CVCL_C7V8-WB68846
CVCL_C7VS-WB68804

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	0	2 Negatives

TEST SUMMARY:

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

Native Product Sterility Report



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

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: SAMPLE#: 25060863

Upon receipt the samples listed below contained 0.5 mL of fluid, 0.25 mL was tested in each media.

EIFIIIi001-A-DB68807

EIFIIIi002-A-DB68808

PACSIli002-A-DB68805

PACSIli003-A-DB68806

AUTHORIZED BY

A handwritten signature in blue ink, appearing to be "A. R.", written over a horizontal line.

DATE

16 JUL 2025

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.