



# Certificate of Analysis

## Thaw and Culture Details

Cell Line Name	CVCL_C7VG	
WiCell Lot Number	WB68944	
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	p38 Colony selection occurred at passage 22. Cells were cultured for 15 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 38.	
Date Vialed	12-June-2025	
Vial Label	CVCL_C7VG p38 WB68944  Store at -135C or colder Made in United States Research Use Only	
WiCell®		
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.	

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>.



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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
<b>Results:</b> 46,XX <b>Interpretation:</b> 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™	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

Approval Date	WiCell Quality Assurance Approval
02-January-2026	<p>1/2/2026</p> <p>X Jenna Gay Jenna Gay WiCell Quality Assurance Signed by: Gay, Jenna</p>

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Date Reported: September 10, 2025

Cell Line Sex: Female

Cell Line: CVCL\_C7VG-WB68944

Reason for Testing: LOT\_RELEASE

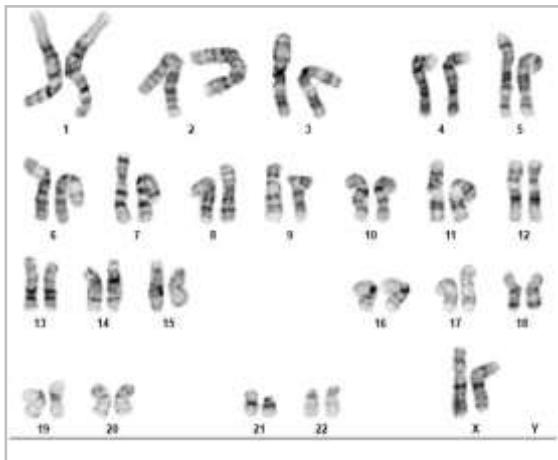
Submitted Passage #: 42

Date of Sample: 9/8/2025

Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human Modified ESC

Results: 46,XX



Cell: 12

Slide: G02

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 9

Total Karyogrammed: 4

Band Resolution: 400 - 525

#### Interpretation:

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

Completed by: Dawn Davis, 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](http://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: 27Jul25, 29Jul25, 31Jul25, 04Aug25  
STR Amplification Date: 06Aug25

Form SOP-89.01  
Version 15.0

Sample Name	WIBR3-S3-WB68940 p33	WIBR3-S1-WB68893 p30	CVCL_C7V3-WB68899 p46	CVCL_C7V2-WB68887 p43	CVCL_C7VG-WB68944 p41	BCHi015-A-2-DB68704 p19
WiCell CTR No. <sup>1</sup>						
FGA						
TPOX						
D8S1179						
vWA						
Amelogenin						
Penta_D						
CSF1PO						
D16S539						
D7S820						
D13S317						
D5S818						
Penta_E						
D18S51						
D21S11						
TH01						
D3S1358						
Allelic Polymorphisms	28	28	28	28	28	29
Matches <sup>2</sup>	See Results	See Results	See Results	See Results	See Results	
Comments						

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

<sup>2</sup> 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: 27Jul25, 29Jul25, 31Jul25, 04Aug25  
STR Amplification Date: 06Aug25

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 28-29 allelic polymorphisms across the 15 STR loci analyzed. Samples 108613, 108572, 108571, 108531 and 108532 are a 100% match to each other and to 108266, 108053, 107971, 107917, 107916, 107882, 107881, 107640, 107471, 107305 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%.

8/14/2025	8/15/2025	8/18/2025
X Kaylie Haddix	X Steph Dos Santos	X Andy Arntz
Tech #1 Characterization Signed by: Haddix, Kaylie	Tech #2 Characterization Signed by: Dos Santos, Stephany	QA Review Quality Assurance Signed by: Arntz, Andy

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# Mycoplasma Assay Report

PCR-based assay performed by WiCell  
WiCell Stem Cell Bank, WiCell  
06Aug25

Form SOP-83.01  
Version 7.0

Sample Name	Result	Interpretation
Incubator 841 31Jul25 KCM 1/1 (108586)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 840 31Jul25 NM 1/1 (108585)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 848 31Jul25 KH 1/1 (108584)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 839 31Jul25 MEFs 1/1 (108583)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 994 31Jul25 NM 1/1 (108582)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 994 31Jul25 KH 1/1 (108581)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 994 31Jul25 JG 1/1 (108580)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 994 31Jul25 KC 1/1 (108579)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7VG-WB68944 p41 (108613)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
BCHi015-A-2-DB68704 p19 (108617)	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).

8/6/2025	8/6/2025	8/7/2025
 Jacob Chow	 Amber Kuhn	 Hunter Hefti
Tech #1 Characterization Signed by: Chow, Jacob	Tech #2 Characterization Signed by: Kuhn, Amber	QA Review Quality Assurance Signed by: Hefti, Hunter

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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  
PACSIIIi002-A-DB68805  
PACSIIIi003-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

A handwritten signature in blue ink that reads "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.