




# Certificate of Analysis

## Thaw and Culture Details

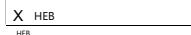
Cell Line Name	<b>CVCL_C7V8</b>	
WiCell Lot Number	<b>WB68846</b>	
Provider/Client	Albert Einstein College of Medicine – Dr. Frank Soldner	
Banked By	WiCell	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate using iSCORE 01 medium and MEF. WiCell recommends 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	p37 Colony selection occurred at passage 30. Cells were cultured for 6 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 37.	
Date Vialled	09-May-2025	
Vial Label	CVCL_C7V8 p37 WB68846  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

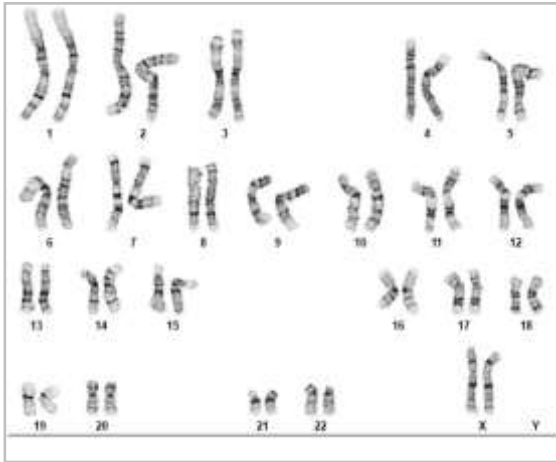
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	<b>Results:</b> 46,XX <b>Interpretation:</b> This is a normal karyotype; no clonal abnormalities were detected at the stated band level of 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
03-April-2026	<div style="text-align: right; font-size: small;">4/3/2026</div>  <div style="font-size: x-small;">             HEB              WiCell Quality Assurance              Signed by: Bruner, 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:** June 16, 2025  
**Cell Line:** CVCL\_C7V8-WB68846  
**Submitted Passage #:** 40  
**Date of Sample:** 6/10/2025  
**Specimen:** Human ESC  
**Results:** 46,XX

**Cell Line Sex:** Female  
**Reason for Testing:** LOT\_RELEASE  
  
**Investigator:** WiCell Stem Cell Bank, WiCell



**Cell:** 116  
**Slide:** G02  
**Slide Type:** Karyotype  
  
**Total Counted:** 20  
**Total Analyzed:** 8  
**Total Karyogrammed:** 4  
**Band Resolution:** 400 - 425

**Interpretation:**

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

**Completed by:** Pam Mill  
**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

Form SOP-89.01  
Version 15.0

Requestor: WiCell Stem Cell Bank, WiCell  
Sample Receipt Date: 12Jun25, 10Jun25, 06Jun25, 02Jun25  
STR Amplification Date: 12Jun25, 13Jun25

Sample Name	CVCL_C7V7- WB68815 p40	PACSIi003-A- DB68806 p9	CVCL_C7V8- WB68846 p40	CVCL_C7V5- WB68880 p38	BCHi013-A-1- DB68699 p20	CVCL_C7V1- WB68881 p43
WiCell CTR No. <sup>1</sup>	107971	107970	107917	107916	107779	107881
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact <a href="mailto:info@wicell.org">info@wicell.org</a>		22, 23	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact <a href="mailto:info@wicell.org">info@wicell.org</a>		
TPOX			8, 9			
D8S1179			11, 13			
vWA			14, 20			
Amelogenin			X, X			
Penta_D			9, 13			
CSF1PO			10, 12			
D16S539			11, 13			
D7S820			10, 11			
D13S317			11, 14			
D5S818			11, 12			
Penta_E			7, 18			
D18S51			16, 16			
D21S11			30, 32.2			
TH01	9.3, 9.3					
D3S1358	14, 17					
Allelic Polymorphisms	28	28	28	28	25	28
Matches <sup>2</sup>	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: 12Jun25, 10Jun25, 06Jun25, 02Jun25  
STR Amplification Date: 12Jun25, 13Jun25

**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 25-28 allelic polymorphisms across the 15 STR loci analyzed. Samples 107971, 107881, 107916 and 107917 are a 100% match to each other and to 105684, 105942, 107124, 107305, 107471, 107640 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%.

6/17/2025	6/18/2025	6/19/2025
<b>X</b> Amber Kuhn	<b>X</b> Anna Lisa Larson	<b>X</b> Hunter Hefti
<hr/> Tech #1 Characterization Signed by: Kuhn, Amber	<hr/> Tech #2 Characterization Signed by: Larson, Anna Lisa	<hr/> 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  
28Jan26

Form SOP-83.01  
Version 7.0

Sample Name	Result	Interpretation
CVCL_C7VH-WB73566 p42 (110410)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 994 26Jan26 KC 1/1 (110418)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 841 26Jan26 KH 1/1 (110420)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 844 26Jan26 AP 1/1 (110421)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 845 26Jan26 KC 1/1 (110422)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 839 26Jan26 MEF 1/1 (110423)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Incubator 995 26Jan26 KH 1/1 (110424)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7V8-WB68846 p37 (110425)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CVCL_C7V5-WB68880 p36 (110426)	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).

2/2/2026	2/2/2026	2/5/2026
<b>X</b> Dylan Peters <hr/> Tech #1 Characterization Signed by: Peters, Dylan	<b>X</b> Steph Dos Santos <hr/> Tech #2 Characterization Signed by: Dos Santos, Stephany	<b>X</b> Manda Weber <hr/> QA Review Quality Assurance Signed by: Weber, Manda

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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  
PACSIII002-A-DB68805  
PACSIII003-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\_C7V5-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
- PACSIi002-A-DB68805
- PACSIi003-A-DB68806

AUTHORIZED BY

A handwritten signature in blue ink, 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.