Certificate of Analysis

Thaw and Culture Details

Cell Line Name	**CVCL_C7VD**	
WiCell Lot Number	**WB73537**	
Provider/Client	University of California - Berkeley – Dr. Dirk Hockemeyer	
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 23. Cells were cultured for 13 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 37.	
Date Vialed	16-NOVEMBER-2025	
Vial Label	CVCL_C7VD p37 WB73537 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

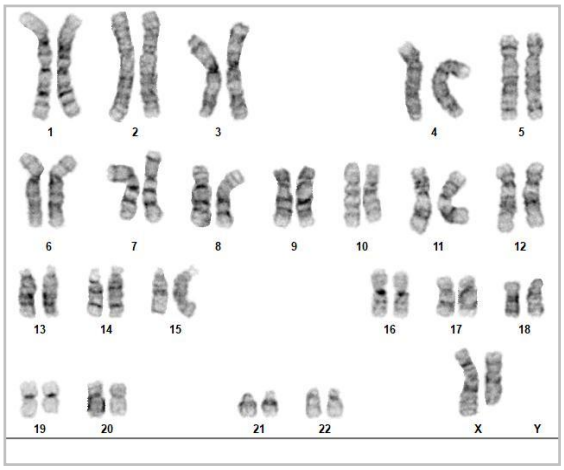
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	Results: 46,XX ***Interpretation:*** This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.			
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
03-April-2026	4/3/2026 X HEB HEB WiCell Quality Assurance Signed by: Bruner, Haley

Chromosome Analysis Report: 110498

Date Reported: February 04, 2026
Cell Line: CVCL_C7VD-WB73537
Submitted Passage #: 40
Date of Sample: 1/30/2026
Specimen: Human Modified ESC
Results: 46,XX

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



Cell: 77
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 425 - 450

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".

Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell
Report Date: 17Feb26

Sample Name	CVCL_C7VX-WB73547 p42	CVCL_C7VJ-WB73546 p50	CVCL_C7VD-WB73537 p40
WiCell CTR No.[1]	110556	110555	110498
FGA	[redacted]	[redacted]	22, 23
TPOX	[redacted]	[redacted]	8, 9
D8S1179	[redacted]	[redacted]	11, 13
vWA	[redacted]	[redacted]	14, 20
Amelogenin	[redacted]	[redacted]	X, X
Penta_D	[redacted]	[redacted]	9, 13
CSF1PO	[redacted]	[redacted]	10, 12
D16S539	[redacted]	[redacted]	11, 13
D7S820	[redacted]	[redacted]	10, 11
D13S317	[redacted]	[redacted]	11, 14
D5S818	[redacted]	[redacted]	11, 12
Penta_E	[redacted]	[redacted]	7, 18
D18S51	[redacted]	[redacted]	16, 16
D21S11	[redacted]	[redacted]	30, 32.2
TH01	[redacted]	[redacted]	9.3, 9.3
D3S1358	[redacted]	[redacted]	14, 17
Allelic Polymorphisms	28	28	28
Matches[2]	See Results	See Results	See Results
Comments			

Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org

[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.

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. Samples 110556, 110555, and 110498 are a 100% match to each other and to 109380, 109332, 110456, 110410, 109577, 109682, 109744, 109490, 109407, 109139, 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%.

2/17/2026 X Steph Dos Santos Tech #1 Characterization Signed by: Dos Santos, Stephany	2/17/2026 X Michael Mussar Tech #2 Characterization Signed by: Mussar, Michael	2/17/2026 X Manda Weber QA Approval Quality Assurance Signed by: Weber, Manda

Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell Stem Cell Bank, WiCell

04Feb26

Form SOP-83.01
Version 7.0

Sample Name	Result	Interpretation
CVCL_C7VD-WB73537 p40 (110498)	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).

2/4/2026 X Steph Dos Santos Tech #1 Characterization Signed by: Dos Santos, Stephany	2/5/2026 X Amber Kuhn Tech #2 Characterization Signed by: Kuhn, Amber	2/5/2026 X Manda Weber QA Review Quality Assurance Signed by: Weber, Manda

A gel image is available upon request.

Native Product Sterility Report

STERIS

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

SAMPLE #: 26010721
DATE RECEIVED: 29-Jan-26
TEST INITIATED: 30-Jan-26
TEST COMPLETED: 13-Feb-26

SAMPLE NAME / DESCRIPTION:
ZFN 1.13-WB69974
SUSL-073_C3-WB69976
SUSL-073_C8-WB69975
SUSL-066_C2-WB69973
SUSL-073_C10-WB70383
ZFN 1.7-WB70384
SUSL-067_C10-WB73567
SUSL-066_C5-WB73568
SUSL-067_C12-WB73573
SUSL-067_C9-WB73565
SUSL-066_C4-WB73572
H9-CAG-ChR2-EYFP-WB73692
H9-CAG-ChR2-EYFP-WB73695
CVCL_C7VX-WB73547
CVCL_C7VJ-WB73546
CVCL_C7UX-WB73545
CVCL_C7VD-WB73537

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
17	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
17	TSB	40	20-25	14
17	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

STERIS

COMMENTS: Sample 26010721

AUTHORIZED BY Lee Vang DATE 17Feb26

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.