



Certificate of Analysis

Thaw and Culture Details

Cell Line Name	BCHi015-A-3	
WiCell Lot Number	DB68705	
Provider/Client	Boston Children's Hospital – Dr. Elizabeth Buttermore	
Banked By	Boston Children's Hospital – Dr. Elizabeth Buttermore	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 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: StemFlex™	Matrix: Matrigel®
Passage Number	p18 Cells were cultured for 18 passages prior to freeze and post reprogramming. Plated cells at thaw should be labeled passage 19.	
Date Vial	16-March-2025	
Vial Label	HNDS0138-01B CC38 (+/+) P18 1 VIAL = 10CM DWW 03/16/2025	
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	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

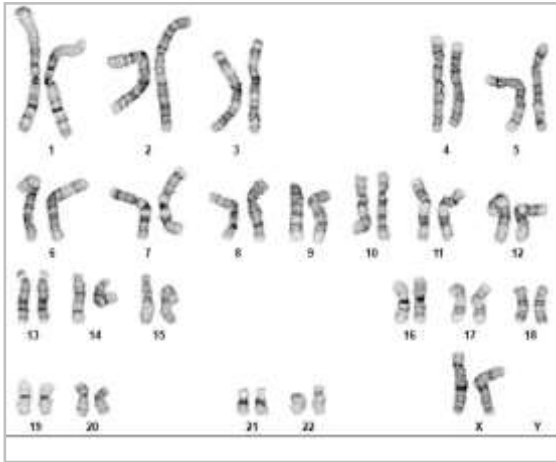
Approval Date	WiCell Quality Assurance Approval
12-May-2026	<p style="text-align: right;">5/12/2026</p> <p>X HEB HEB WiCell Quality Assurance Signed by: Bruner, Haley</p>

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: August 10, 2025
Cell Line: BCHi015-A-3-DB68705
Submitted Passage #: 20
Date of Sample: 8/5/2025
Specimen: Human iPSC
Results: 46,XX

Cell Line Sex: Female
Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 30
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 450 - 500

Interpretation:

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

Completed by: Timm Gonzales, 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: 05Aug25

STR Amplification Date: 13Aug25

Form SOP-89.01

Version 15.0

Sample Name	BCHi015-A-3-DB68705 p20	WIBR3-WB68995 p38
WiCell CTR No. ¹	108634	108624
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org	
TPOX		
D8S1179		
vWA		
Amelogenin		
Penta_D		
CSF1PO		
D16S539		
D7S820		
D13S317		
D5S818		
Penta_E		
D18S51		
D21S11		
TH01		
D3S1358		
Allelic Polymorphisms	29	28
Matches ²	108617	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: 05Aug25
STR Amplification Date: 13Aug25

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. Sample 108624 is a 100% match to 108613, 108572, 108571, 108532, 108531, 108266, 108053, 107971, 107917, 107916 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%.

8/15/2025	8/18/2025	8/19/2025
<p>X Amber Kuhn</p> <hr/> <p>Tech #1 Characterization Signed by: Kuhn, Amber</p>	<p>X Michael Mussar</p> <hr/> <p>Tech #2 Characterization Signed by: Mussar, Michael</p>	<p>X Andy Arntz</p> <hr/> <p>QA Review Quality Assurance Signed by: Arntz, Andy</p>

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Mycoplasma Assay Report

PCR-based assay performed by WiCell
WiCell Stem Cell Bank, WiCell
08Aug25

Form SOP-83.01
Version 7.0

Sample Name	Result	Interpretation
BCHi015-A-3-DB68705 p20 (108634)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WIBR3-WB68995 p38 (108624)	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).

8/8/2025	8/11/2025	8/11/2025
<p>X Steph Dos Santos</p> <hr/> <p>Tech #1 Characterization Signed by: Dos Santos, Stephany</p>	<p>X Amber Kuhn</p> <hr/> <p>Tech #2 Characterization Signed by: Kuhn, Amber</p>	<p>X Dawn Graham</p> <hr/> <p>QA Review Quality Assurance Signed by: Graham, Dawn</p>

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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 #: 25050630
DATE RECEIVED: 22-May-25
TEST INITIATED: 27-May-25
TEST COMPLETED: 10-Jun-25

SAMPLE NAME / DESCRIPTION: BCHi013-A-1-DB68699
BCHi013-A-3-DB68700
BCHi014-A-10-DB68702
BCHi014-A-12-DB68703
BCHi014-A-9-DB68701
BCHi015-A-2-DB68704
BCHi015-A-3-DB68705
BCHi015-A-5-DB68706
BCHi016-A-1-DB68707
BCHi016-A-3-DB68708
BCHi017-A-7-DB68709
BCHi017-A-11-DB68711
BCHi017-A-9-DB68710
BCHi018-A-11-DB68714
BCHi018-A-7-DB68712
UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
15	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
15	TSB	40	20-25	14
15	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: Sample # 25050630

AUTHORIZED BY

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke, positioned above a solid black horizontal line.

DATE

12 JUN 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.