

Certificate of Analysis

Thaw and Culture Details

Cell Line Name	UCSD246i-CNTL-2	
WiCell Lot Number	DB68094	
Provider/Client	University of California, San Diego – Dr	. Kelly Frazer
Banked By	University of California, San Diego – Dr	. Kelly Frazer
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate using mTeSR [™] 1 and Cultrex [®] . WiCell recommends thawing with ROCK Inhibitor.	
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol
Culture Platform Prior to Freeze	Medium: mTeSR [™] 1	Matrix: Matrigel®
Passage Number	p16 Cells were cultured for 16 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 17.	
Date Vialed	30-August-2022	
Vial Label	T036_SNP1_Het_3 iPSC_P16 ADC_20220830	
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
	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
Karyotype	Interpretation: T in ten of twenty co stem cell cultures	Results: 46,XX,dup(20)(q11.2q11.2)[10]/46,XX[10] Interpretation: This is an abnormal karyotype. There is an interstitial duplication in the long (q) arm of chromosome 20 in ten of twenty cells examined. There is a known recurrent acquired duplication at this location in human pluripotent stem cell cultures; we recommend that this abnormality be confirmed by higher resolution testing. No other 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	
30-November-2023	11/80/2023 M Hunter Hefti HH WiCell Quality Assurance Signed by Hefti, Hunter	



Chromosome Analysis Report: 098294

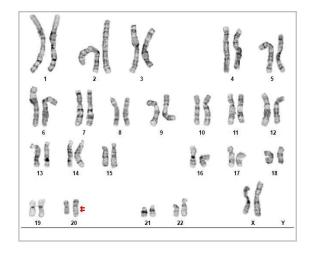
Date Reported: Monday, August 21, 2023

Cell Line: UCSD246i-CNTL-2-DB68094

Submitted Passage #: 18
Date of Sample: 8/10/2023

Specimen: Human IPSC

Results: 46,XX,dup(20)(q11.2q11.2)[10]/46,XX[10]



Cell Line Sex: Female

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 14

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 10

Total Karyogrammed: 4

Band Resolution: 425 - 450

Interpretation:

This is an abnormal karyotype. There is an interstitial duplication in the long (q) arm of chromosome 20 in ten of twenty cells examined. There is a known recurrent acquired duplication at this location in human pluripotent stem cell cultures; we recommend that this abnormality be confirmed by higher resolution testing. No other clonal abnormalities were detected at the stated band level of resolution.

Completed by: Jennifer Pecos, CG(ASCP)

Reviewed and Interpreted by: Vanessa Horner, 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

Form SOP-89.01 Version 10.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 10Aug23 STR Amplification Date: 14Aug23

Sample Name	UCSD246i- CNTL-2- DB68094 p18	
WiCell CTR No.1	98294	
FGA		
TPOX		
D8S1179		
vWA		
Amelogenin		
Penta_D	Identifying	
CSF1PO	information has been redacted to	
D16S539	protect donor	
D7S820	confidentiality. If more information	
D13S317	is required, please contact	
D5S818	info@wicell.org	
Penta_E		
D18S51		
D21S11		
TH01		
D3S1358		
Allelic Polymorphisms	26	
Matches*	See Matches Comment	
Comments		

*Note: The STR profile of the following sample is a 100% match for the given sample/samples unless otherwise specified.

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



Short Tandem Repeat

Form SOP-89.01 Version 10.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 10Aug23 STR Amplification Date: 14Aug23

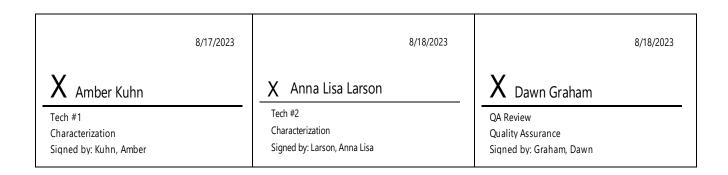
<u>Assay Description:</u> STR analysis is performed using the PowerPlex 16 HS System by PromegaTM. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> 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 suggests 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.

<u>Sensitivity</u>: Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-4%.

<u>Matches:</u> Sample 98294 is a 100% match to 97709, 97621, 73192, 98009, 72643, 72297, 98010, 98078, 72296 and additional profiles. Additional matches can be provided upon request.



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Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell Stem Cell Bank, WiCell 15Aug23

Form SOP-83.01 Version 5.0

Sample Name	Result	Interpretation
UCSD246i-CNTL-2-DB68094 p18 (98294)	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

8/15/202	8/15/2023	8/16/2023
X Amber Kuhn	X Michael Mussar	X Dawn Graham
Tech #1 Characterization Signed by: Kuhn, Amber	Tech #2 Characterization Signed by: Mussar, Michael	QA Review Quality Assurance Signed by: Graham, Dawn

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A gel image is available upon request.

Native Product Sterility Report



SAMPLE #:

23040601

DATE RECEIVED:

13-Apr-23

TEST INITIATED:

14-Apr-23

TEST COMPLETED:

28-Apr-23

SAMPLE NAME / DESCRIPTION:

504 S Rosa Road, Rm 101

Madison, WI 53719

WiCell

PACS2iPS01-C5-DB68076

WA09-WB68097

HES7-NLuc-2A-tdtomato-DB68082 H9 T-2A-EGFP-PGK-DB68085

H1-Fucci-DB68086

H1 MYH11-NLuc-tdTomato-DB68087 HES7-NLuc-2A-tdtomato-DB68090

JHU255i-DB37129 JHU256i-DB37132 JHU257i-DB37136

UCSD242i-LQT1-1-DB68089 UCSD243i-LQT3-1-DB68091 UCSD244i-LQT3-2-DB68092 UCSD245i-CNTL-1-DB68093 UCSD246i-CNTL-2-DB68094 UCSD247i-LQT1-2-DB68095 UCSD182i-3-2-DB68096 JHU252i-DB37121

UNIQUE IDENTIFIER:

N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	1	2 Negatives

JHU013i-2-DB40951 JHU022i-DB40963

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 METHODOLOG	GY:	USP - Direct Transfer
COMMENTS:	Sample #2304060	21
	Sample labeled H media.	1myh11 c5 p28 5cm2 jab 28AUG17 is positive for both TSB and FTG

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.

AUTHORIZED BY

DATE 09 MAY 2023