

# **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	STAN023i-41-1		
WiCell Lot Number	DB31169		
Provider/Client	Stanford University – Laboratory of Dr.	Marlene Rabinovitch	
Banked By	Stanford University – Laboratory of Dr.	Marlene Rabinovitch	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into E8 <sup>™</sup> and Matrigel <sup>®</sup> .	1 well of a 6 well plate using TeSR <sup>™</sup> -	
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: E8 Matrix: Matrigel®		
Passage Number	p10 These cells were cultured for 10 passages prior to freeze and post reprogramming. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.		
Date Vialed	10-June-2015		
Vial Label	06/10/2015  E 41  D####-###  ip 41FSVNOC1 P10  V###################################		
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
Results: 46,XY Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.				l of
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 <sup>™</sup>	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

**Testing Reported by Provider** 

Test Description Method Result		Result
Identity	SNP	iPSCs match the donor material
Mycoplasma	Lonza MycoAlert <sup>™</sup> kit	Negative

The Provider stated that the additional analysis listed below may have been performed for this cell line. For more information, publication and dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)



# **Certificate of Analysis**

Approval Date	WiCell Quality Assurance Approval	
04-June-2016	11//1/2021  X HEB  HEB WiCell Quality Assurance Signed by: Bruner, Helby	



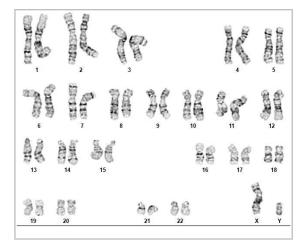
#### Chromosome Analysis Report: 087772

Date Reported: Tuesday, August 31, 2021

Cell Line: STAN023i-41-1-DB31169

Submitted Passage #: 12 Date of Sample: 8/23/2021 Specimen: Human IPSC

Results: 46,XY



Cell Line Sex: Male

Reason for Testing: LOT RELEASE

WiCell Stem Cell Bank, WiCell Investigator:

Cell: 20

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: Timm Gonzales, CG(ASCP) Reviewed and Interpreted by: Kaitlin C. Lenhart, Ph.D.

Date:	Sent By:	Sent To:	QC Review By:
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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 Samples Received: 23Aug21, 24Aug21, 25Aug21 STR Amplification Date: 21Aug21

Sample Name	STAN023i-41- 1-DB31169 p12	NDO.SS.005- DB67687 p12	IMR90- TSC2Het- WB67712 p44	NDO.SS.007- DB67690 p15	NDO.SS.006- DB67688 p12
Label on tube	87772	87792	87793	87794	87805
FGA					
ТРОХ					
D8S1179					
vWA			Identifying information has		
Amelogenin			been redacted to		
Penta_D			protect donor confidentiality. If		
CSF1PO			more information		
D16S539			is required, please contact		
D7S820			info@wicell.org		
D13S317					
D5S818					
Penta_E					
D18S51					
D21S11					
TH01					
D3S1358					
Allelic Polymorphisms	27	27	28	27	27
Matches*		See Matches Comment	See Matches Comment	See Matches Comment	See Matches Comment
Comments					

<sup>\*</sup>Note: The STR profile of the following sample is an exact match for the given sample/samples.



### **Short Tandem Repeat**

Form SOP-89.01 Version 7.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 23Aug21, 24Aug21, 25Aug21

STR Amplification Date: 21Aug21

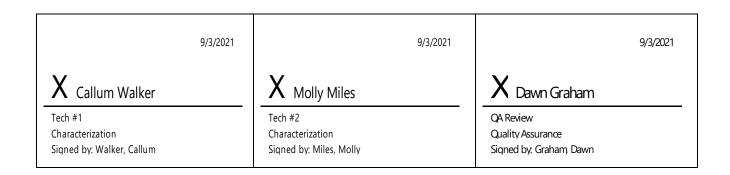
<u>Assay Description:</u> STR analysis is performed using the PowerPlex 16 HS System by Promega<sup>TM</sup>. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

**Results:** The genotypic profiles comprise a range of 27-28 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 ~2-5%.

<u>Matches:</u> Samples 87792, 87794, and 87805 are exact matches to each other and to 87925, 87924, 87923, 87894, 87893, and 87727. Sample 87793 is an exact match to 87887, 84550, 70422, 67351, 65704, 63444, 63441, 58649 and a 96.67% match to 63442 and 58502.



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Raw data is available upon request.



8/24/2021

## Mycoplasma Assay Report

FORM SOP-83.01 Version 3.0

8/25/2021

PCR-based assay performed by WiCell WiCell 24Aug21

Sample Name	Result	Interpretation
NDO.SS.015-WB67711 p22 (87727)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN023i-41-1-DB31169 p12 (87772)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

8/24/2021

X Callum Walker	X Amber Kuhn	X Andy Arntz
Tech #1	 Tech #2	QA Review
Characterization	Characterization	Quality Assurance
Signed by: Walker, Callum	Signed by: Kuhn, Amber	Signed by: Arntz, Andy

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A gel image is available upon request.

## Native Product Sterility Report



SAMPLE #:

21080662

DATE RECEIVED:

12-Aug-21

**TEST INITIATED:** 

12-Aug-21

**TEST COMPLETED:** 

26-Aug-21

SAMPLE NAME / DESCRIPTION:

504 S Rosa Road, Rm 101

Madison, WI 53719

CREM056i-BR39-1-WB67703

STAN017i-171-1-DB31059

STAN019i-177-1-DB31114 STAN028i-42-1-DB30917 STAN010i-041-2-DB31056 PENN071i-216-13-DB34946

STAN018i-171-2-DB31075 STAN020i-177-2-DB31121 STAN029i-42-2-DB30926 STAN023i-41-1-DB31169

UNIQUE IDENTIFIER:

N/A

**TEST RESULTS:** 

WiCell

# Tested	# Positives (Growth)	- Control	
10	0	2 Negatives	

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
10	TSB	40	20-25	14
10	FTG	40	30-35	14

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

PD #:

000053

**TEST METHODOLOGY:** 

**USP - Direct Transfer** 

**COMMENTS:** 

NA

**REVIEWED BY** 

DATE 26 AnG 2021

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.