



# Certificate of Analysis

## Thaw and Culture Details

Cell Line Name	<b>STAN248i-617C1</b>	
WiCell Lot Number	<b>DB35488</b>	
Provider/Client	Stanford University – Laboratory of Dr. Thomas Queternous	
Banked By	Icahn School of Medicine at Mount Sinai Stem Cell Core	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate using TeSR™ 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: mTeSR™ 1	Matrix: Matrigel®
Passage Number	p13 Cells were cultured for 13 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 14.	
Date Vialled	10-December-2015	
Vial Label	ISSMS 617i C1P13 ITA 121015	
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	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

## Testing Reported by Provider

The Provider stated that some or all of the additional analyses 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.

- RNA-Seq
- Whole Genome Sequencing
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

Approval Date	WiCell Quality Assurance Approval
26-August-20201	<div style="text-align: right; font-size: small;">8/26/2021</div>  <div style="font-size: x-small;">           JKG            WiCell Quality Assurance            Signed by Gay, Jenna         </div>

**Date Reported:** Thursday, June 17, 2021

**Cell Line:** STAN248i-617C1-DB35488

**Submitted Passage #:** 15

**Date of Sample:** 6/4/2021

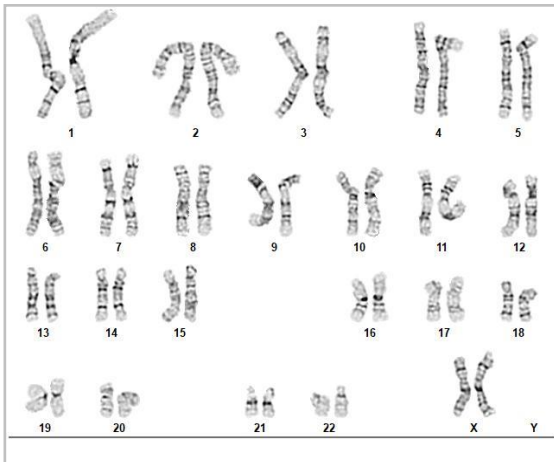
**Specimen:** Human iPSC

**Results:** 46,XX

**Cell Line Sex:** Female

**Reason for Testing:** LOT\_RELEASE

**Investigator:** WiCell Stem Cell Bank, WiCell



**Cell:** 4

**Slide:** G03

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyogrammed:** 4

**Band Resolution:** 500 - 550

**Interpretation:**

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

**Completed by:** Kate Bird, CG(ASCP)

**Reviewed and Interpreted by:** Vanessa Horner, PhD, FACMG

**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

Requestor: WiCell Stem Cell Bank, WiCell

Samples Received: 03Jun21, 04Jun21

STR Amplification Date: 07Jun21

Form SOP-89.01

Version 5.0

Sample Name	STAN249i-617C2-DB35491 p15	STAN151i-303C3-DB35736 p18	STAN248i-617C1-DB35488 p15	PENN122i-627-5-DB36632 p15
Label on tube	86519	86540	86541	86542
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>			
TPOX				
D8S1179				
vWA				
Amelogenin				
Penta_D				
CSF1PO				
D16S539				
D7S820				
D13S317				
D5S818				
Penta_E				
D18S51				
D21S11				
TH01				
D3S1358				
Allelic Polymorphisms	27	27	27	28
Matches*				
Comments				

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



# Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell  
Samples Received: 03Jun21, 04Jun21  
STR Amplification Date: 07Jun21

Form SOP-89.01  
Version 5.0

**Assay Description:** STR analysis is performed using the PowerPlex 16 HS System by Promega™. 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.

**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 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.

**Sensitivity:** Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-5%.

6/9/2021	6/10/2021	6/10/2021
<b>X</b> Callum Walker	<b>X</b> Amber Kuhn	<b>X</b> Dawn Graham
<hr/> Tech #1 Characterization Signed by: Walker, Callum	<hr/> Tech #2 Characterization Signed by: Kuhn, Amber	<hr/> QA Review Quality Assurance Signed by: Graham Dawn

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*Raw data is available upon request.*



# Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell  
01Jun21

FORM SOP-83.01

Version 3.0

Sample Name	Result	Interpretation
STAN151i-303C3-DB35736 p16 (86448)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN248i-617C1-DB35488 p14 (86449)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN249i-617C2-DB35491 p14 (86450)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

6/1/2021

6/2/2021

6/3/2021

X Hannah Rueth

Tech #1  
Characterization  
Signed by: Rueth, Hannah

X Callum Walker

Tech #2  
Characterization  
Signed by: Walker, Callum

X Dawn Graham

QA Review  
Quality Assurance  
Signed by: Graham, Dawn

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*A gel image is available upon request.*

# Native Product Sterility Report



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

SAMPLE #: 21070812  
DATE RECEIVED: 14-Jul-21  
TEST INITIATED: 27-Jul-21  
TEST COMPLETED: 10-Aug-21

SAMPLE NAME / DESCRIPTION: CREM017i-SS19-1-WB67673  
PENN042i-258-12-WB67671  
UCSD239i-APP2-1-WB67672  
STAN151i-303C3-DB35736  
STAN248i-617C1-DB35488  
STAN249i-617C2-DB35491  
WA01-WB67657  
WA01-WB67656  
STAN366i-282C2-WB67655  
SCRP5803i-DB42982  
SCRP6101i-DB42990  
SCRP6904i-DB43007  
SCRP7301i-DB43010  
HVRDi001-A-WB67674  
SCRP8105i-DB43117  
SCRP8305i-DB43120  
SCRP8503i-DB43126  
SCRP8601i-DB43129  
SCRP8717i-DB43132  
SCRP8901i-DB43135

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

## REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

## PD #:

000053

## TEST METHODOLOGY:

USP - Direct Transfer

# Native Product Sterility Report



COMMENTS: Sample # 21070812

REVIEWED BY \_\_\_\_\_

DATE 13 AUG 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.