

Thaw and Culture Details

Cell Line Name	JHU102i			
WiCell Lot Number	DB41279			
Provider	Johns Hopkins University – Laboratory of Dr. Lewis Becker			
Banked By	Johns Hopkins University – Laboratory of Dr. Lewis Becker			
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate using TeSR [™] -E8 [™] and Recombinant Human Vitronectin. WiCell recommends thawing using ROCK Inhibitor for best results.			
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol			
Culture Platform Prior to Freeze	Feeder Independent			
	Medium: E8			
	Matrix: Vitronectin			
Passage Number	p4 These cells were cultured for 4 passages post reprogramming prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.			
Date Vialed	04-June-2016			
Vial Label	P102 P4 6/4/16 0.9M			
Biosafety and Use Information	This cell line is of human origin. 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.			

Testing Performed by WiCell

Test Description	Test Provider	Test Method Test Specification		Result
Karyotype by G-banding	WiCell	SOP-49	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-99	Recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-79	Negative	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.

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

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Approval Date	Quality Assurance Approval
26-August-2016	I2/J/0220 Min Quality Assumance Signed by: Gay, Jenna

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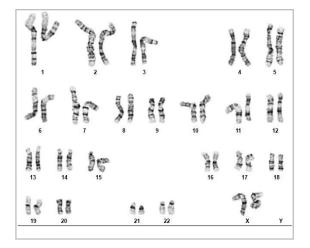
The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at http://www.wicell.org/privacyandterms.



Chromosome Analysis Report: 083679

Date Reported: Friday, November 13, 2020 Cell Line: JHU102i-DB41279 Submitted Passage #: 5 Date of Sample: 11/6/2020 Specimen: Human IPSC Results: 46,XX Cell Line Sex: Female Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 35 Slide: G01 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 400 - 450

Interpretation:

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

 Completed by:
 _______, CG(ASCP)

 Reviewed and Interpreted by:
 Ph.D.

 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 Samples Received: 02Nov20, 06Nov20 STR Amplification Date: 11Nov20 Form SOP-89.01 Version 2.0

	WA09-RB67589	JHU105i-	JHU148i-DB36280	JHU102i-DB41279	JHU250i-	JHU173i-DB36380
Sample Name	p.30	DB36241 p.5	p.7	<mark>p.5</mark>	DB36904 p.8	p.10
Label on tube	83593	83677	83678	83679	83687	83688
FGA						
ΤΡΟΧ						
D8S1179			Identifyin	a		
vWA			informati	on has		
Amelogenin			been red			
Penta_D		protect donor confidentiality. If				
CSF1PO		more information				
D16S539			is require please co			
D7\$820			info@wid	cell.org		
D13S317						
D5\$818						
Penta_E						
D18S51						
D21S11						
TH01						
D3S1358						
Allelic Polymorphisms	24	30	27	25	25	43
	See Matches					
Matches*	Comment					
						See Mixed Cell
Comments						Line Comment

*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: 02Nov20, 06Nov20 STR Amplification Date: 11Nov20 Form SOP-89.01 Version 2.0

Results: The genotypic profiles comprise a range of 24-43 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%.

Mixed Cell Line: Sample 83688 shows signs of possible contamination. The most likely explanation for this result is that two cultures have been mixed. G-banded karyotype results confirmed the presence of both male and female cells in the culture. Please resubmit this sample.

<u>Matches:</u> Sample 83593 is an exact match to 14630, 74319, 74844, 74924, and 74925.

12/1,	/2020	12/1/2020	12/1/2020
X	X		X
Tech #1	Tech #2		QA Review
Characteriz <u>ation</u>	Characteriz <u>ation</u>		Quality Assurance
Signed by:	Signed by:		Signed by:

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Raw data is available upon request.

Native Product Sterility Report



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

SAMPLE #:	18121076
DATE RECEIVED:	13-Dec-18
TEST INITIATED:	17-Dec-18
TEST COMPLETED:	31-Dec-18

SAMPLE NAME / DESCRIPTION:

LUEL8363i-3 WB66952 14169, JHU088i DB41240 14170, JHU132i DB36272 14171, JHU102i DB41279 14172, JHU103i DB36236 14173, iPS DF19-9-7T DB36826 14174, iPS DF4-3-7T.A DB36837 14175, iPS DF6-9-9T.B DB36844 14176, MIRJT7i-mND2-0 DB36854 14177, IISH1i-BM1 DB36864 14178, IISH2i-BM9 DB36871 14179, IISH3i-CB6 DB36881 14180, WA01 DB36785 14181, WA07 DB36888 14182, WA09 DB36899 14183, WA24 DB36798 14184, JHU155i DB41365 14185, JHU184i DB41392 14186, JHU142i DB41344 14187, WA09 NA65899 14189.

UNIQUE IDENTIFIER:

NA

TEST RESULTS:	# Tested	# Positives (Growth)	- Control		
	20	1	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 accord	ling to LAB-003: St	erility Test Procedu	ire
PD #:		000053			
TEST METHODOLOG	àΥ:	USP - Direct Tran	sfer		

Sample labeled P142 P6 6/16/16 0.9M is positive in TSB and FTG media.

Reported as per packing slip.

REVIEWED BY

DATE AATSI

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.

STERIS Laboratories 9303 West Broadway Ave Brooklyn Park, MN 55445

PRINTED ON 1/2/2019

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Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell 04Nov20

Sample Name	Result	Comments/Suggestions
INC149 02Nov20AP (83598)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 02Nov29KR 1 of 2 (83599)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 02Nov20KR 2 of 2 (83600)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC169 02Nov20MMM 1 of 2 (83601)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC169 02Nov20MMM 2 of 2 (83602)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU105i-DB36241 (83622)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU004i-2-DB40945 (83623)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU036i-DB40981 (83624)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU102i-DB41279 (83625)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU148i-DB36280 (83626)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU173i-DB36380 (83627)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU214i-DB36851 (83628)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU234i-DB37041 (83629)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU250i-DB36904 (83630)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by:Senior Cell Culture SpecialistReviewed by:Assistant Cell Culture Specialist

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A gel image is available upon request.