

## **Thaw and Culture Details**

Cell Line Name	JHU024i
WiCell Lot Number	WB66445
Parent Material	JHU024i-DB40969
Provider	The Johns Hopkins University - Dr. Lewis Becker
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: TeSR <sup>™</sup> -E8 <sup>™</sup>
	Matrix: Recombinant Human Vitronectin
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p21 These cells were cultured for 20 passages post reprogramming prior to freeze. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	19-July-2017
Vial Label	JHU024i p21 WB66445
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.

## **Testing Performed by WiCell**

Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	Pass
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305 ≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and recoverable attachment after passage		Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Consistent with known profile	Pass
Sterility	Biotest Laboratories	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

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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.



## **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

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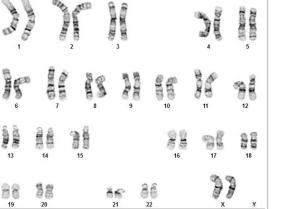
Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	Quality Assurance Approval
18-August-2017	9/6/2017 AMK Quality Assurance Signed by Klade, Anjelica

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Date Reported: Friday, August 04, 2017 Cell Line Gender: Female Cell Line: JHU024i-WB66445 12670 Reason for Testing: lot release testing Passage#: 21 Date of Sample: 7/25/2017 Investigator: Specimen: Human IPSC Results: 46,XX



Cell: 6 Slide: G02 Slide Type: Karyotype WiCell CDM

Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 425 - 450

#### Interpretation:

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

Completed by: Reviewed and Interpreted by: A signed copy of this report is ava	CG(ASCP) , PhD, FACMG ailable upon request.	
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 may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The results of this assay are for research use only. If the results of this assay are to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.

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Short Tandem Repeat Analysis

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) http://www.pathology.wisc.edu/research/trip

Sample Report: 12670-STR Sample Name on Tube: 12670-STR 102.9 ng/µL, (A260/280=1.94) Sample Type: Cells Cell Count: ~2 million cells

**Requestor:** WiCell Research Institute Quality Department WiCell<sup>®</sup> info@wicell.org (888) 204-1782

Sample Date: N/A Receive Date: 07/31/17 Assay Date: 08/02/17 File Name: STR 170802 wmr Report Date: 08/07/17

STR Locus	STR Genotype Repeat #	STR Genotype
FGA	16–18,18.2,19,19.2,20,20.2,21,21.2,22, 22.2, 23, 23.2, 24, 24.2, 25, 25.2, 26–30, 31.2, 43.2, 44.2,45.2, 46.2	Identifying
TPOX	6-13	information has
D8S1179	7-18	been redacted to
vWA	10-22	protect donor
Amelogenin	X,Y	confidentiality. If
Penta_D	2.2, 3.2, 5, 7-17	more information
CSF1PO	6-15	is required, please, contact
D16S539	5, 8-15	WiCell's Technical
D7S820	6-14	Support.
D13S317	7-15	
D5S818	7-16	
Penta_E	5-24	
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	
D21S11	24,24.2,25,25.2,26-28,28.2,29,29.2, 30, 30.2,31, 31.2,32,32.2,33,33.2, 34,34.2,35,35.2,36-38	
<b>TH01</b>	4-9,9.3,10-11,13.3	
D3S1358	12-20	

<u>Results:</u> Based on the 12670-STR cells submitted by WiCell QA dated and received on 07/31/17, this sample (Label on Tube: 12670-STR) exactly matches the STR profile of the human stem cell line JHU024i comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human JHU024i stem cell line were detected and 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. This result suggests that the 12670-STR sample submitted corresponds to the JHU024i stem cell line and was not contaminated with any other human stem 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 stem cell lines is ~2-5%.

X RMB Digitally Signed on 08/07/17	X WMR Digitally Signed on 08/07/17
TRIP Laboratory, Molecular	PhD, Director / Co-Director UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laborat

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only. Acknowledge TRIP in your publications, posters & presentations. For details, see: http://www.pathology.wisc.edu/research/trip/acknowledging TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a).

# Native Product Sterility Report



WiCell 504 S Rosa Rd, Rm 101 Madison, WI 53719		SAMPLE #: DATE RECEIVED: TEST INITIATED: TEST COMPLETED:	17071725 27-Jul-17 31-Jul-17 14-Aug-17
SAMPLE NAME / DESCRIPTION: UNIQUE IDENTIFIER: PRODUCT REGISTRATION:	HVRDi001-A-WB66391 12659 JHU024i-WB66445 12660 WA09-WB66444 12661 WA09-WB66446 12662 UCSD005i-43-1-WB62267 12663 UCSD008i-44-1-WB66286 12664 UCSD036i-4-5-WB65173 12665 UCSD233i-SAD-2-DB26810 12666 UCSD235i-SAD2-4-DB26816 12667 iPS(IMR90)-2-WB66447 12668 NA Human iPS cells		

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

**TEST SUMMARY:** 

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

### **REFERENCE:**

METHOD VALIDATION / PD #: TEST METHODOLOGY: Processed according to LAB-003: Sterility Test Procedure 000053 USP - Direct Transfer

COMMENTS: NA REVIEWED BY

DATESAUGO

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.



## Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing July 28, 2017 FORM SOP-QU-004.01 Version F Edition 02 Reported by: OG Reviewed by: JB BD Monolight 180

		Read	ing A	Α	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	<b>Comments/Suggestions</b>
1	JHU024i-WB66445 12670	598	615	606.5	291	293	292	0.48	Negative	
2	Positive (+) Control	451	453	452	43705	43895	43800	96.90	Positive	
3	Negative (-) Control	803	817	810	89	88	88.5	0.11	Negative	

