



## Thaw and Culture Details

Cell Line Name	<b>JHU017i</b>
WiCell Lot Number	<b>DB36203</b>
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. WiCell recommends passaging with ROCK Inhibitor.
Culture Platform	Feeder Independent
	Medium: E8
	Matrix: Vitronectin
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p11 These cells were cultured for 11 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 Viald	16-April-2015
Vial Label	P017 P11 4/16/15 1 million
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-CH-003	Expected karyotype	See Report
	<p><b>Results:</b> 46,XX Nonclonal findings: 47,XX,+Xcopy and paste results here; no bold or italics]  <b>Interpretation:</b> This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.            There is a nonclonal finding, listed above, which contains a chromosomal aberration (an extra X chromosome) recurrently acquired in cultures of this cell type. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.</p>			
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	Recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines profile	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	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 (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval
08-July-2016	<p style="text-align: right;">1/31/2019</p> <p>X JKG JKG Quality Assurance Signed by Gay, Anna</p>

**Date Reported:** Wednesday, January 16, 2019

**Cell Line Sex:** Female

**Cell Line:** JHU017i-DB36203 14220

**Reason for Testing:** Lot Release Testing

**Passage#:** 12

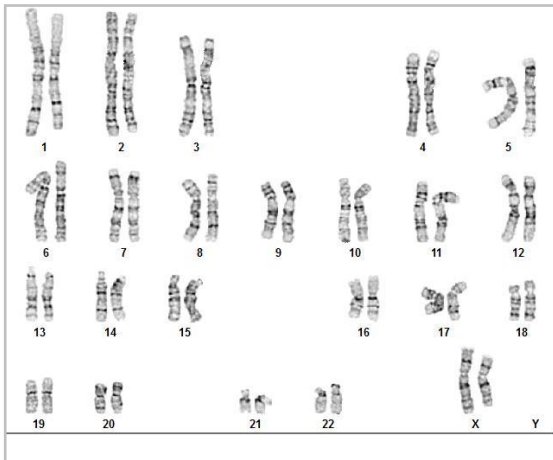
**Date of Sample:** 1/10/2019

**Investigator:** [REDACTED], WiCell

**Specimen:** Human IPS

**Results:** 46,XX

**Nonclonal findings:** 47,XX,+X



**Cell:** 3

**Slide:** G02

**Slide Type:** Karyotype

**Total Counted:** 40

**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.*

*There is a nonclonal finding, listed above, which contains a chromosomal aberration (an extra X chromosome) recurrently acquired in cultures of this cell type. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.*

**Completed by:** [REDACTED], CG(ASCP)

**Reviewed and Interpreted by:** [REDACTED], 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. 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.



HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine  
TRIP Laboratory (Molecular)  
<https://research.pathology.wisc.edu/trip/>  
(608) 265-9168

# Short Tandem Repeat Analysis



[characterization@wicell.org](mailto:characterization@wicell.org)  
(608) 316-4145

**Sample Report:**

14220-STR

**Sample Name on Tube:** 14220-STR

45.8 ng/μL, (A260/280=1.81)

**Sample Type:** Cells

**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute

Quality Assurance Department

**Receive Date:** 01/22/19

**Report Sent:** 01/29/19

**Assay Date:** 01/24/19

**File Name:** STR 190125 wmr

**Report Date:** 01/28/19

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 information has been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .
TPOX	6-13	
D8S1179	7-18	
vWA	10-22	
Amelogenin	X,Y	
Penta_D	2.2, 3.2, 5, 7-17	
CSF1PO	6-15	
D16S539	5, 8-15	
D7S820	6-14	
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	
TH01	4-9,9.3,10-11,13.3	
D3S1358	12-20	

**Results:** Based on the 14220-STR cells submitted by WiCell QA dated and received on 01/29/18, this sample (Label on Tube: 14220-STR) defines the STR profile of the human stem cell line JHU017i comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human JHU017i 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 14220-STR sample submitted corresponds to the JHU017i stem cell line and was not contaminated with any other human stem 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 stem cell lines is ~2-5%.

**X** *RMB* Digitally Signed on 01/29/19

**X** *WMR* Digitally Signed on 01/29/19

BA  
TRIP Laboratory, Molecular

PhD, Director / Co-Director  
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

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>  
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# Native Product Sterility Report



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

SAMPLE #: 18111919  
DATE RECEIVED: 29-Nov-18  
TEST INITIATED: 05-Dec-18  
TEST COMPLETED: 19-Dec-18

SAMPLE NAME / DESCRIPTION: JHU108i DB36247 14120  
JHU017i DB36203 14121  
JHU023i DB40966 14122  
JHU033i DB40975 14123  
JHU035i DB40978 14124  
JHU037i DB40984 14125  
JHU057i DB41089 14126  
JHU060i-2 DB41095 14127  
JHU077i DB36215 14128  
JHU078i DB36218 14129

UNIQUE IDENTIFIER: NA

## TEST RESULTS:

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

## TEST SUMMARY:

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

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY

DATE

21 DEC 18

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.



# Mycoplasma Detection Assay Report

Testing Performed by WiCell

Lot Release Testing

January 10, 2019

FORM SOP-QU-004.01

Version G Edition 02

Reported by: AP

Reviewed by: JB

Berthold Flash n' Glow 539

#	Sample Name	Reading A		A Ave	Reading B		B Ave	Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2		RLU1	RLU2				
1	JHU017i-DB36203 14220	146	134	140	43	45	44	0.31	Negative	
2	Positive (+) Control	174	183	178.5	11389	11290	11340	63.53	Positive	
3	Negative (-) Control	259	261	260	28	30	29	0.11	Negative	

