

### **Thaw and Culture Details**

Cell Line Name	JHU236i						
WiCell Lot Number	DB37047						
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 1 wells of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.						
Culture Platform	Feeder Independent						
	Medium: E8						
	Matrix: Vitronectin						
Protocol	WiCell Feeder Independent E8 Medium Protocol						
Passage Number  p5 These cells were cultured for 5 passages post reprogramming prior to freeze. Add +1 to the number to best represent the overall passage number of the cells at thaw.							
Date Vialed 09-June-2015							
Vial Label	P236 P5 1.1x10^6 6/9/15						
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	Pass
Post-Thaw Viable Cell	WiCell	SOP-CH-305	Recoverable attachment after	Pass
Recovery			passage	
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines profile	Pass
Sterility	Biotest Laboratories	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 (MEGAEX)

Approval Date	Quality Assurance Approval
14-July-2016	AMK  AMK  Quality Assurance Signed by Klade, Anjelica



### Chromosome Analysis Report: 067000

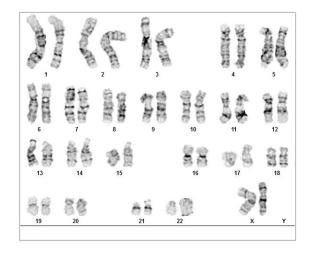
Date Reported: Wednesday, July 19, 2017 Cell Line Gender: Female

Cell Line: JHU236i-DB37047 12602 Reason for Testing: lot release testing

Passage#: 7

Date of Sample: 7/10/2017 Specimen: Human ESC

Results: 46,XX



Cell: 9 Slide: 2

Investigator:

Slide Type: Karyotype

WiCell CDM

QC Review By: \_\_\_

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.

Sent By:\_\_\_\_ Sent To:\_\_

cell populations in this specimen (i.e.,mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

Completed by:				MS, CG(AS	SCP)
Revie	ved ar	nd Interprete	ed by:		PhD, FACMG
	_		—		<u>-</u> '

A signed copy of this report is available upon request.

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 karvograms in this assay. Detection of heterogeneity of clonal

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.

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 Analysis**

info@wicell.org (888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

**Sample Report:** 12602-STR

Sample Name on Tube: 12602-STR

 $119.4 \text{ ng/}\mu\text{L}$ , (A260/280=2.00)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute

**Ouality Department** 

Sample Date: N/A **Receive Date:** 07/24/17

**Assav Date:** 07/25/17

File Name: STR 170727 wmr

**Report Date:** 07/31/17

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 information has				
TPOX	6-13	been redacted to				
D8S1179	7-18	protect donor				
vWA	10-22	confidentiality. If				
Amelogenin	X,Y	more information is required,				
Penta_D	ta_D 2.2, 3.2, 5, 7-17					
CSF1PO						
D16S539	<b>D16S539</b> 5, 8-15					
D7S820	6-14					
D13S317	7-15					
D5S818	7-16					
Penta_E	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 12602-STR cells submitted by WiCell QA dated and received on 07/24/17, this sample (Label on Tube: 12602-STR) defines the STR profile of the human stem cell line JHU236i comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human JHU236i 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 12602-STR sample submitted corresponds to the JHU236i 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  $\sim 2-5\%$ .

X RMB	Digitally Signed on	07/31/17	X WMR	Digitally Signed on	07/31/17
TRIP La	boratory, Molecular		UWHC Mole	, PhD, Director / Co-Direct cular Diagnostics Laboratory / UW.	

## Native Product Sterility Report



SAMPLE #:

17062122

DATE RECEIVED:

29-Jun-17

TEST INITIATED:

30-Jun-17

TEST COMPLETED:

14-Jul-17

SAMPLE NAME / DESCRIPTION:

JHU024i-DB40969 12578

JHU044i-DB41057 12579

JHU045i-DB41060 12580 JHU204i-DB36815 12581

JHU222i-DB36892 12582

JHU236i-DB37047 12583

HVRDi001-A-1-WB66254 12584

HVRDi002-A-WB65326 12585

UCSD236i-APP1-1-WB66255 12587 UCSD237i-APP1-2-DB26822 12589

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Human iPS cells

**TEST RESULTS:** 

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

	# Positives	
# Tested	(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

METHOD VALIDATION / PD #:

000053

**TEST METHODOLOGY:** 

USP - Direct Transfer

## Native Product Sterility Report



COMMENTS: Sample # 17062122

REVIEWED BY	Dussand	DATE 17 JULI

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 6, 2017 FORM SOP-QU-004.01 Version F Edition 02 Reported by: KR Reviewed by: JB BD Monolight 180

		Read	ing A	A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	JHU236i-DB37047 12602	261	264	262.5	104	106	105	0.40	Negative	
2	Positive (+) Control	453	451	452	37998	38147	38073	84.23	Positive	
3	Negative (-) Control	689	716	702.5	102	97	99.5	0.14	Negative	

