

Thaw and Culture Details

Cell Line Name	JHU071i
WiCell Lot Number	DB41122
Provider	Johns Hopkins University – Laboratory of Dr. Lewis Becker
Banked By	Johns Hopkins University – Laboratory of Dr. Lewis Becker
Thaw and Culture Recommendations	The Provider recommends thawing 1 vial into 4 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: E8
	Matrix: Vitronectin
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p7 These cells were cultured for 7 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	P071 P7 6/4/16 0.5M
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
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
Karyotype by G-banding	WiCell	SOP-CH-003	Report karyotype	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 Approva				
	2/7/2017				
26-August-2016	X AMK				
	AMK Quality Assurance Signed by: Klade, Anjelica				



Short Tandem Repeat Analysis

WiCell®
info@wicell.org
(888) 204-1782

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

Sample Report: 12120-STR

Sample Name on Tube: 12120-STR

 $165.0 \text{ ng/}\mu\text{L}, (A260/280=1.97)$

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department **Sample Date:** N/A **Receive Date:** 01/23/17

Assav Date: 01/24/17

File Name: STR 170125 wmr

Report Date: 01/26/17

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
Penta_D	2.2, 3.2, 5, 7-17	is required, please, contact
CSF1PO	6-15	WiCell's Technica
D16S539	5, 8-15	Support.
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	

<u>Results:</u> Based on the 12120-STR cells submitted by WiCell QA dated and received on 01/23/17, this sample (Label on Tube: 12120-STR) defines the STR profile of the human stem cell line JHU071i comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human JHU071i 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 12120-STR sample submitted corresponds to the JHU071i 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	01/2717	X WMR	Digitally Signed on	01/27/17
TRIP La	boratory, Molecular	_	UWHC Mole	, PhD, Director / Co-Director / Coular Diagnostics Laboratory / UW	

Sterility Report

Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc.

BIOTEST SAMPLE # 17011270

WiCell Quality Assurance

504 South Rosa Road, Room 101 VALIDATION # NG

Madison, WI 53719

TEST PURPOSE NG

PRODUCT JHU064i-DB41110 12126, JHU066i-DB41116 12127, JHU071i-DB41122 12128, JHU117i-

DB41295 12129, JHU125i-DB41326 12130, JHU219i-DB36878 12131, JHU207i-DB36830

12132, JHU208i-DB36834 12133, JHU209i-DB36839 12134, MIN09i-33114.C-WB57126 12155

PRODUCT LOT NA

STERILE LOT NA BI LOT NA

STERILIZATION LOT NA BI EXPIRATION DATE NA

STERILIZATION DATE NA DATE RECEIVED 2017-01-19

STERILIZATION METHOD NA TEST INITIATED 2017-01-20

SAMPLING BLDG / ROOM NA TEST COMPLETED 2017-02-03

REFERENCE Processed according to LAB-003: Sterility Test Procedure

Ten (10) products were each divided between 40 mL TSB and 40 mL FTG. The samples were then cultured at 20-25 C and 30-35 C respectively and were monitored for a

minimum of 14 days.

⊠ USP

☐ BI Manufacturers Specifications

Other

RESULTS # POSITIVES # TESTED POSITIVE CONTROL NEGATIVE CONTROL

Sterile 0 10 NA 2 Negatives

COMMENTS NA

REVIEWED BY DATE 03 FEB 17

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. Liability is limited to the costs of the tests. The uncertainty of measurement associated with the measurement result reported in this certificate is available from the organization upon request.

Biotest Laboratories = 9303 West Broadway Ave. = Brooklyn Park, MN 55445 = USA = (763) 315-1200

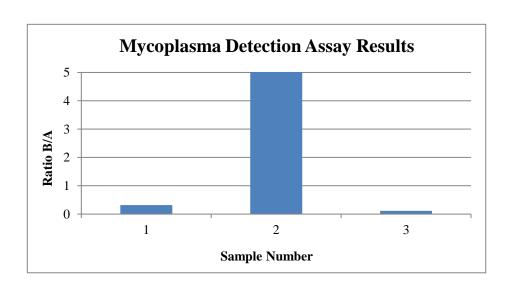


Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing January 17, 2017

FORM SOP-QU-004.01 Version F Edition 02 Reported by:OG Reviewed by: JB Berthold Flash n' Glo 539

		Reading A		A	A Reading B		В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	JHU071i-DB41122 12120	137	135	136	42	45	43.5	0.32	Negative	
2	Positive (+) Control	124	117	120.5	7249	7237	7243	60.11	Positive	
3	Negative (-) Control	234	229	231.5	28	25	26.5	0.11	Negative	





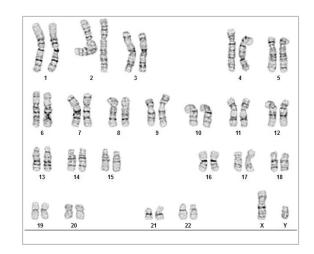
Chromosome Analysis Report: 058206

Date Reported: Thursday, January 26, 2017 Cell Line Gender: Male Cell Line: JHU071i-DB41122 12120 Reason for Testing: Lot release testing

Passage#: 9

Date of Sample: 1/20/2017

Specimen: iPSC Results: 46,XY



. WiCell CDM

Cell: 43 Slide: 1

Investigator:

Slide Type: Karyotype

Total Counted: 20 Total Analyzed: 8

Total Karyogrammed: 4 Band Resolution: 450 - 475

QC Review By: ____

Interpretation:

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

Completed by:	MS, CG(AS	SCP)
Reviewed and Interpreted by:		PhD, FACMG
A sinused service filling nement is	 	•

A signed copy of this report is available upon request.

Limitations:	This assay	allows for micro	oscopic visuali	ization of nu	merical and s	structural chr	romosome al	bnormalities.	The size of stru	ctural abnorma	ality that can be	detected
is >3-10Mb,	dependent	upon the G-ba	nd resolution (obtained froi	m this specim	en. For the p	purposes of	this report, be	and level is defin	ed as the num	ber of G-bands	per
hanlaid aan		animantad bar	a a a "band lav	al" : a tha :	vanaa af bana	da datarmina	d from the fo		an in thin annu	Dotootion of b	atarananiti af	alamal

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".

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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