

Thaw and Culture Details

Cell Line Name	JFRBi3
WiCell Lot Number	DB29686
Provider	Jain Foundation
Banked By	Cellular Dynamics International
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: E8 Medium
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p8 These cells were cultured for 8 passages prior to freeze and post reprogramming. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	23-October-2014
Vial Label	MyCell® Products Cat #: iPSC Lot #: 01457.104.08 Passage #: 08 Storage Temp Liquid Nitrogen
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
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	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

This testing was performed prior to banking unless otherwise specified.

Test Description	Method	Result
Genetic Analysis	Karyotype by G-Banding	Normal Karyotype
Pluripotency	Multiplex RT-PCR to quantify endogenous expression of 7 genes. Scores generated from the analysis predict probability samples are iPSC-like.	Passing sample score ≥0.9
Mycoplasma	Commercially available mycoplasma detection kit.	Negative
Human Virus Testing	HIV I/II CPT Code 87389; detects both antigen and antibodies for HIV I and HIV II. HBV CPT Code 87340; detects Hepatitis B surface antigen. HCV CPT Code 86803; Immunoassay detects Hepatitis C antibody.	Donor samples tested negative for the following human viruses. HIV I HIV II HBV HCV
Identity	Multiplex STR analysis of 9 commonly used alleles.	Match of iPS cell line to incoming donor material.

Approval Date	Quality Assurance Approval
	5/1/2017
21-December-2015	AMK AMK Quality Assurance Signed by: Rlade, Anjelica



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: 12387-STR

Sample Name on Tube: 12387-STR

 $53.4 \text{ ng/}\mu\text{L}$, (A260/280=1.89)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute **Quality Department**

Sample Date: N/A **Receive Date:** 04/03/17

Assav Date: 04/04/17 File Name: STR 170405 wmr

Report Date: 04/06/17

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	

Results: Based on the 12387-STR cells submitted by WiCell QA dated and received on 04/03/17, this sample (Label on Tube: 12387-STR) defines the STR profile of the human stem cell line JFRBi3 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human JFRBi3 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 12387-STR sample submitted corresponds to the JFRBi3 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 $\sim 2-5\%$.

 \mathbf{X} RMB \mathbf{X} WMR **Digitally Signed on Digitally Signed on** rauer, PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Sterility Report

Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc. WiCell Quality Assurance

504 South Rosa Road, Room 101

Madison, WI 53719

BIOTEST SAMPLE #

16032814

VALIDATION #

NG

TEST PURPOSE

NG

PRODUCT

UCSD001i-5-1-DB25307 11584, UCSD002i-16-1-DB25351 11585, UCSD003i-16-2-DB25354 11586, UCSD004i-42-1-DB25357 11587, UCSD005i-43-1-DB25344 11588, JFRBi3-DB29686 11589, JFRBi2-DB29695 11590, JFRBi1-DB29683 11591, JFNY1-DB29680 11592, NSC-

H14iPSZeng-DB0010 11593

PRODUCT LOT

NA

STERILE LOT

NA

BILOT

NA

STERILIZATION LOT

NA

DATE RECEIVED

BI EXPIRATION DATE NA

2016-03-30

STERILIZATION DATE

NA

TEST INITIATED

2016-04-18

STERILIZATION METHOD NA SAMPLING BLDG / ROOM NA

TEST COMPLETED

2016-05-02

REFERENCE

Processed according to LAB-003; Sterility Test Procedure

10

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 Sterile # POSITIVES

0

TESTED

POSITIVE CONTROL

NEGATIVE CONTROL

NA

2 Negatives

COMMENTS NA

REVIEWED BY

DATE 02 MAY/6

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.

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

Form: M-002 rev 11 Effective: 13JUN13

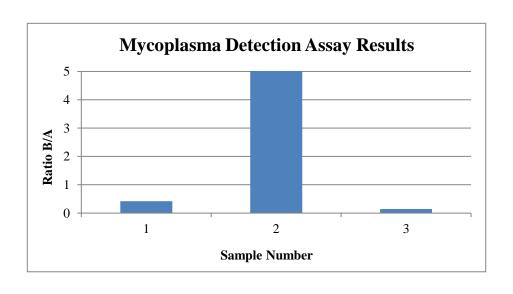




Mycoplasma Detection Assay Report Testing Performed by WiCell

esting Performed by WiCell Lot Release March 22, 2017 FORM SOP-QU-004.01 Version F Edition 02 Reported by: OG Reviewed by: JB BD Monolight 180

		Read	ing A	A	Read	ing B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	JFRBi3-DB29686 12387	207	205	206	87	85	86	0.42	Negative	
2	Positive (+) Control	339	332	335.5	42524	42961	42743	127.40	Positive	
3	Negative (-) Control	463	469	466	69	65	67	0.14	Negative	





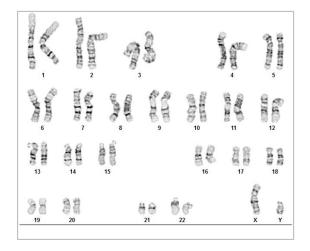
Chromosome Analysis Report: 062085

Date Reported: Tuesday, April 04, 2017 Cell Line: JFRBi3-DB29686 12387

Passage#: 10

Date of Sample: 3/29/2017

Specimen: iPSC Results: 46,XY



Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator: , WiCell CDM

Cell: 61 Slide: 3

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 450 - 550

QC Review By: ____

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:	, CG(ASCP)
Reviewed and Interpreted by:	, PhD, FACMG

A signed copy of this report is available upon request.

Limitations: Th	nis assay allows for	r microscopic v	risualization of r	numerical and s	structural chron	osome abnormalities	The size of stru	ctural abnormality	that can be detected
is >3-10Mb, de	ependent upon the	G-band resolu	ition obtained fr	om this specim	nen. For the pui	poses of this report, b	and level is defin	ed as the number	of G-bands per
haploid genon	ne. It is documente	d here as "ban	d level". i.e., the	e range of band	ds determined t	rom the four karvogra	ms in this assav.	Detection of heter	rogeneity 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.

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Testing Reported by Provider

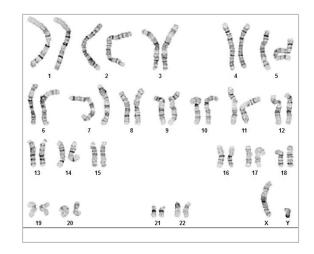
The testing reports following this placeholder are described on the certificate of analysis found in the beginning of this packet.



Chromosome Analysis Report: 015635

Date Reported: Friday, October 31, 2014 Cell Line Gender: Male
Cell Line: 01457.104.08 Reason for Testing: Routine testing

Specimen: iPSC Results: 46,XY



Cell: 30 Slide: 4

Slide Type: Karyotype

Total Counted: 20 Total Analyzed: 8 Total Karyotyped: 4

Band Resolution: 450 - 525

QC Review By: __

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:	, CG(ASCP))
Reviewed and Interpreted by:		, PhD, FACMG
A signard source of their warmout in		

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.

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