

### **Thaw and Culture Details**

Cell Line Name	JFMD3
WiCell Lot Number	WB66604
Provider	Jain Foundation
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™-E8™
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p8 These cells were cultured for 7 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	19-September-2017
Vial Label	JFMD3 p8 WB66604
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	Defines profile	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	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 And antibodies for HIV I and HIV II. HBV CPT Code 87340; detects both antigen ABV 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		
10-November-2017	11/10/2017  X JKG  RG  Qualify Assurance Signed by Gay, Jenna		



### Chromosome Analysis Report: 068749

Cell Line Gender: Male

Investigator:

Reason for Testing: lot release testing

WiCell CDM

Date Reported: Wednesday, October 18,

2017

Cell Line: JFMD3-WB66604 12938

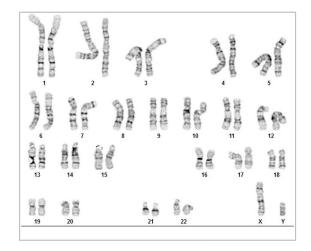
Passage#: 8

Date of Sample: 10/11/2017

Specimen: Human IPS

Results: 46,XY

Nonclonal finding: 46,XY,del(14)(q11.2)



Cell: 47

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 450 - 550

### Interpretation:

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

There is one nonclonal finding, listed above. Nonclonal findings likely result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

Completed by: Reviewed and Interpreted by: , CG(ASCP)

PhD, FACMG

A signed copy of this report is available 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

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:** 12938-STR

Sample Name on Tube: 12938-STR

 $81.9 \text{ ng/}\mu\text{L}$ , (A260/280=1.78)

Sample Type: Cells

**Cell Count:** ~2 million cells

**Requestor:** 

WiCell Research Institute
Ouality Department

**Sample Date:** N/A **Receive Date:** 10/16/17

**Assay Date:** 10/17/17 **File Name:** STR 171018 wmr

**Report Date:** 10/24/17

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 confidentiality. If
Amelogenin	X,Y	more information
Penta_D	2.2, 3.2, 5, 7-17	is required,
CSF1PO	6-15	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	
TH01	4-9,9.3,10-11,13.3	
D3S1358	12-20	

<u>Results:</u> Based on the 12938-STR cells submitted by WiCell QA dated and received on 10/16/17, this sample (Label on Tube: 12938-STR) defines the STR profile of the human stem cell line JFMD3 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human JFMD3 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 12938-STR sample submitted corresponds to the JFMD3 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	10/25/17	X WMR	Digitally Signed on	10/25/17
TRIP La	boratory, Molecular		UWHC Mole	PhD, Director / Co-Direc cular Diagnostics Laboratory / UW	

### Native Product Sterility Report



SAMPLE #:

17091838

DATE RECEIVED:

28-Sep-17

TEST INITIATED:

29-Sep-17

TEST COMPLETED:

13-Oct-17

JFWT6-WB66607 12920 JFMD3-WB66604 12921

JFNY4-WB66605 12922

JFRBi4-WB66606 12923

UCSD102i-2-1-WB62273 12924

UCSD044i-48-1-WB57578 12925

UCSD106i-2-5-WB54639 12926

UCSD042i-46-1-WB64667 12927

UCSD062i-66-1-WB54930 12928

UCSD155i-12-1-WB58974 12929

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

**TEST RESULTS:** 

WiCell

504 S Rosa Rd, Rm 101

SAMPLE NAME / DESCRIPTION:

Madison, WI 53719

# Tested	# Positives (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 # 17091838

REVIEWED BY June and

DATE 130CTI7

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 October 11, 2017

FORM SOP-QU-004.01 Version G Edition 02 Reported by: KR Reviewed by: JB BD Monolight 180

		Read	ing A	A Reading B		В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	JFMD3-WB66604 12938	277	241	259	80	80	80	0.31	Negative	
2	Positive (+) Control	323	324	323.5	28602	28759	28681	88.66	Positive	
3	Negative (-) Control	576	583	579.5	71	73	72	0.12	Negative	

