

Thaw and Culture Details

Cell Line Name	MCW086i-40000176						
WiCell Lot Number	WB66545						
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel						
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	p13						
	These cells were cultured for 12 passages prior to colony picking. WiCell adds +1 to the pass number to best represent the overall passage number of the cells at thaw.						
Date Vialed	22-August-2017						
Vial Label	MCW086i-40000176						
	p13 WB66545						
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	≥ 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	System by Defines profile	
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

Approval Date	Quality Assurance Approval		
18-October-2017	10/18/2017 X RK RK Quality Assurance Signed by Kremens, Enk		



Chromosome Analysis Report: 067732

Date Reported: Wednesday, September 13,

2017

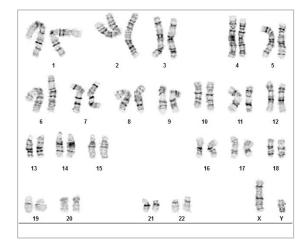
Cell Line: MCW086i-40000176-WB66545

12801

Passage#: 13

Date of Sample: 8/31/2017 Specimen: Human IPS

Results: 46,XY



Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator:

Cell: 29 Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 475 - 550

Interpretation:

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

Completed by:

Reviewed and Interpreted by:

ort is available upon request

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: 12801-STR

Sample Name on Tube: 12801-STR

 $57.3 \text{ ng/}\mu\text{L}$, (A260/280=2.10)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Ouality Department Sample Date: N/A

Receive Date: 09/05/17 **Assay Date:** 09/12/17

File Name: 170913 STR WMR

Report Date: 09/15/17

STR Locus	STR Locus STR Genotype Repeat #						
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							
D8S1179	7-18	been redacted to protect donor					
vWA	10-22	confidentiality. If					
Amelogenin	X,Y	more information					
Penta_D	2.2, 3.2, 5, 7-17	is required,					
CSF1PO	6-15	please, contact <u>WiCell's Technical</u>					
D16S539	5, 8-15	Support.					
D7S820	6-14	<u>очрон.</u>					
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 12801-STR cells submitted by WiCell QA dated and received on 09/05/17, this sample (Label on Tube: 12801-STR) defines the STR profile of the human stem cell line MCW086i-40000176 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW086i-40000176 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 12801-STR sample submitted corresponds to the MCW086i-40000176 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 09/15/17	X WA	Digitally Signed on	09/15/17
TRIP La	boratory, Molecular	UWHC .	, PhD, Director / Co-Direc Molecular Diagnostics Laboratory / UW	

Native Product Sterility Report



WiCell

504 S Rosa Rd, Rm 101 Madison, WI 53719 CORRECTED REPORT SAMPLE #:

17090875

DATE RECEIVED:

14-Sep-17

TEST INITIATED:

18-Sep-17

TEST COMPLETED:

02-Oct-17

SAMPLE NAME / DESCRIPTION:

MCW003i-40001883-WB66553_12835, MCW047i-U2234-WB66549_12836, MCW071i-U2177-WB66552_12837, MCW086i-40000176-WB66545_12838, MCW090i-40000374-WB66557_12839, MCW091i-U2202-WB66554_12840,

MCW097i-400001654-WB66548_12841, MCW112i-40000893-WB66551_12842, MCW116i-40001890-WB66550_12843, MCW073i-40000527-

WB66570_12844, MCW060i-U2183-WB66559_12845, JFHZ4-WB66573_12846, JFHZ5-WB66587_12847, JFHZ6-WB66583_12848, JFMD6-WB66581_12849, JFNY2-WB66584_12850, JFRBi5-WB66569_12851, JFWT2-WB66586_12852, JFWT4-WB66582_12853, UCSD239i-APP2-1-WB66585_12854, MCW100i-U2341-WB66575_12881, MCW114i-U2144-WB66566_12882, iPS(IMR90)-2-

WB66588_12883, UCSD035i-4-4-WB62259_12884, UCSD064i-20-2-WB63303_12885, UCSD143i-87-1-WB57685_12886, UCSD161i-93-1-WB54536_12887, UCSD199i-107-1-WB59910_12888, UCSD209i-24-1-

WB57661_12889, UCSD081i-1-14-WB61903_12890

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS Cells

TEST RESULTS:

	# Positives	
# Tested	(Growth)	- Control
30	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
30	TSB	40	20-25	14
30	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 # 17090875

Report revised due to Customer request to update Sample Name / Description.

REVIEWED BY DAT

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 August 30, 2017

FORM SOP-QU-004.01 Version F Edition 02 Reported by: KR Reviewed by: 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	MCW086i-40000176-WB66545 12801	259	264	261.5	80	77	78.5	0.30	Negative	
2	Positive (+) Control	387	395	391	25241	25413	25327	64.77	Positive	
3	Negative (-) Control	573	581	577	66	63	64.5	0.11	Negative	

