

Thaw and Culture Details

Cell Line Name	MIN21i-34363.B		
WiCell Lot Number	WB20385		
Provider	Massachusetts General Hospital		
Banked By	WiCell		
Thaw and Culture Recommendations	J		
Culture Platform Feeder Independent			
	Medium: mTeSR™1		
	Matrix: Matrigel®		
Protocol	WiCell Feeder Independent mTeSR™1 Protocol		
Passage Number	p12 These cells were cultured for 11 passages prior to freeze. WiCell adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 12.		
Date Vialed	19-June-2015		
Vial Label	MIN21i-34363.B p12 WB20385		
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	See Report
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-CH-044	Negative	Pass

Approval Date	Quality Assurance Approval	
09-October-2015	3/27/2019 X JKG IKG Quality Assurance Signed by Gay, Jenna	



Chromosome Analysis Report: 075278

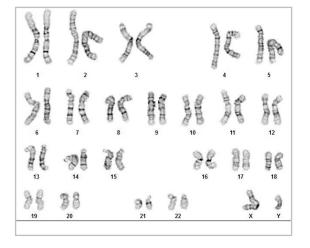
Date Reported: Wednesday, March 06, 2019

Cell Line: MIN21i-34363.B-WB20385 14318

Passage#: 12

Date of Sample: 2/25/2019 Specimen: Human IPS

Results: 46,XY



Cell Line Sex: Male

Reason for Testing: Lot Release Testing

Investigator: WiCell

Cell: 5

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4 Band Resolution: 450 - 525

QC Review By: __

Interpretation:

Date:

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

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

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".

Sent By:____ Sent To:_

This assay was conducted solely for listed investigator/institution. The results of this assay are for research use only. 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

Your Lab Partner

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) https://research.pathology.wisc.edu/trip/ (608) 265-9168

characterization@wicell.org (608) 316-4145

Sample Report:

14318-STR

Sample Name on Tube: 14318-STR

 $70.0 \text{ ng/}\mu\text{L}$, (A260/280=1.88)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Assurance Department **Receive Date:** 03/04/19 **Report Sent:** 03/14/19

Assay Date: 03/06/19, 03/12/19 **File Name:** STR 190313 wmr

Report Date: 03/14/19

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,
CSF1PO	6-15	please, contact
D16S539	5, 8-15	WiCell's Technical Support.
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 14318-STR cells submitted by WiCell QA dated and received on 03/04/19, this sample (Label on Tube: 14318-STR) defines the STR profile of the human stem cell line MIN21i-34363.B comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MIN21i-34363.B 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 14318-STR sample submitted corresponds to the MIN21i-34363.B 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 03/14/19	X WMR	Digitally Signed on	03/14/19
TRIP La	, BA boratory, Molecular	UWHC Ma	, PhD, Director / Co-Direct Diecular Diagnostics Laboratory / UW.	

Sterility Report

WiCell Research Institute, Inc.

Biotest Laboratories, Inc.

Making life-saving products possible

16020409

BIOTEST SAMPLE #

WiCell Quality Assurance 504 South Rosa Road, Room 101 **VALIDATION #** NG Madison, WI 53719 **TEST PURPOSE** NG **PRODUCT** MIN19i-33811.D-WB20032 11514 MIN20i-34363.A-WB20384 11515 MIN21i-34363.B-WB20385 11516 MIN15i-33363.D-WB20945 11517 MIN14i-33363.C-WB20811 11518 MIN17i-33808.B-WB20714 11519 MIN16i-33808.A-WB20715 11520 DF19-9-7T-WB0136 11521 JFHZ3-DB29774 11522 JFHZ2-DB29769 11523 PRODUCT LOT NA STERILE LOT **BILOT** NA NA STERILIZATION LOT BI EXPIRATION DATE NA NA STERILIZATION DATE DATE RECEIVED NA 2016-02-02 STERILIZATION METHOD NA **TEST INITIATED** 2016-02-05 SAMPLING BLDG / ROOM NA TEST COMPLETED 2016-02-19 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 Bl Manufacturers Specifications Other

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.

TESTED

10

POSITIVE CONTROL

NA

DATE 22 FEB 16

POSITIVES

0

RESULTS

Sterile

COMMENTS

NEGATIVE CONTROL

2 Negatives



WiCell

Mycoplasma Assay Report PCR-based assay performed by WiCell

PCR-based assay performed by WiCell WiCell SCB 01Mar2019

#	Sample Name	Result	Comments/Suggestions
1	MIN21i-34363.B-WB20385 14318	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma
2	Positive (+) Control	Positive	
3	Negative (-) Control	Negative	

Reported by: Gustavo Velazquez, Research Specialist - Cytogenetics

Reviewed by: Sondra Minter, Cell Culture Specialist

Date:_____ Sent By:____ Sent To_____

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A gel image is available upon request.