

## **Thaw and Culture Details**

Cell Line Name	MIN06i-33110.2H
WiCell Lot Number	WB20163
Provider	Massachusetts General Hospital
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: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p23 These cells were cultured for 22 passages prior to freeze. WiCell adds +1 to the passage number at freeze so that the number on the vial best represents the overall passage number of the cells at thaw.
Date Vialed	05-June-2015
Vial Label	MIN06i-33110.2H p23 WB20163
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** 

		<u> </u>		
Test Description	Test Provider	Test Method	Test Specification	Result
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	Biotest Laboratories	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype <sup>1</sup>	Pass

<sup>&</sup>lt;sup>1</sup>This is the first karyotype of this cell line.



**Testing Reported by Provider** 

Test Description & Method	Result			
Embryoid Body Formation	RT(q)PCR (Brachyury, GATA2 - Meso; AFP, Sox17 - Endo; Pax6, MAP2 - Ectoderm)			
Pluripotency Markers; AP, Oct4, Nanog, SSEA-3, SSEA-4, TRA1-60	All Markers Expressed			

Approval Date	Quality Assurance Approval		
09-October-2015	6/24/2016  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:** 11641-STR

**Sample Name on Tube:** 11641-STR

63.6 ng/µL, (A260/280=1.80)

Sample Type: Cells

**Cell Count:** ~2 million cells

**Requestor:** WiCell Research Institute

Quality Department

Sample Date: N/A Receive Date: 05/11/16 Assay Date: 05/17/16

File Name: STR 160518 wmr

**Report Date:** 05/23/16

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 is required,
Penta_D	2.2, 3.2, 5, 7-17	please, contact
CSF1PO	6-15	WiCell's Technical
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 11641-STR cells submitted by WiCell QA dated and received on 05/11/16, this sample (Label on Tube: 11641-STR) defines the STR profile of the human stem cell line MIN06i-33110.2H comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human MIN06i-33110.2H 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 11641-STR sample submitted corresponds to the MIN06i-33110.2H 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	05/23/16	X WMR	Digitally Signed on	05/23/16
TRIP La	boratory, Molecular		UWHC Molec	, PhD, Director / Co-Director cular Diagnostics Laboratory / UWSI	

### Sterility Report

#### Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc. **BIOTEST SAMPLE #** 15101757 WiCell Quality Assurance **VALIDATION #** NG **TEST PURPOSE** NG **PRODUCT** WA28-WB0201 11409, WA28-WB0202 11410, WA29-WB0203 11411, WA29-WB0204 11412, WA30-WB0213 11413, WA30-WB0214 11414 WA31-WB0215 11415, WA31-WB0216 11416, WA32-WB0217 11417 WA33-WB0220 11419, WA33-WB0221 11420, WA34-WB0222 11421 WA35-WB0224 11422, WA35-WB0225 11423, WA36-WB0226 11424 WA36-WB0227 11425, WA37-WB0228 11426, WA37-WB0229 11427 WA38-WB0230 11428, WA38-WB0231 11429, WA39-WB0233 11430 WA39-WB0234 11431, WA40-WB0235 11432, WA40-WB0236 11433 WA41-WB0241 11434, WA42-WB0242 11435, WA42-WB0243 11436 WA43-WB0244 11437, WA43-WB0245 11438, WA44-WB0246 11439 WA44-WB0247 11440, WA45-WB0254 11441, WA45-WB0255 11442 WA46-WB0256 11443, WA46-WB0257 11444, WA47-WB0258 11445 WA47-WB0259 11446, H9 hOct4-pGZ-WB22367 11451 MIN05i-33110.2F-WB20162 11452, MIN06i-33110.2H-WB20163 11453 PRODUCT LOT NA **BILOT** STERILE LOT NA NA STERILIZATION LOT BI EXPIRATION DATE NA NA STERILIZATION DATE DATE RECEIVED NA 2015-10-21 STERILIZATION METHOD NA **TEST INITIATED** 2015-10-23 **TEST COMPLETED** SAMPLING BLDG / ROOM NA 2015-11-06 REFERENCE Processed according to LAB-003: Sterility Test Procedure Forty (40) products were each cultured in 40 mL TSB at 20-25 C and 40 products were each cultured in 40 mL FTG at 30-35 C and monitored for a minimum of 14 days. ⊠ USP □ BI Manufacturers Specifications ☐ Other **NEGATIVE CONTROL** RESULTS # POSITIVES # TESTED POSITIVE CONTROL Sterile 0 40 NA 2 Negatives

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, Inc.

Making life-saving products possible

BIOTEST SAMPLE # 15101757	
COMMENTS NA	
REVIEWED BY	DATE 06 NOVIS

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



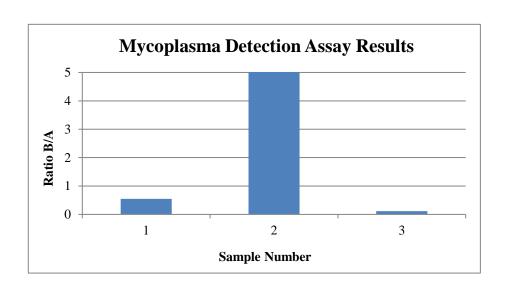


# Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing May 6th, 2016

FORM SOP-QU-004.01 Version E Edition 01 Reported by: SS Reviewed by: JB Berthold Flash n' Glo 539

		Read	ing A	A	Read	ing B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	MIN06i-33110.2H-WB20163 11641	160	157	158.5	93	81	87	0.55	Negative	
2	Positive (+) Control	225	238	231.5	19246	19260	19253	83.17	Positive	
3	Negative (-) Control	342	336	339	40	37	38.5	0.11	Negative	





#### Chromosome Analysis Report: 033652

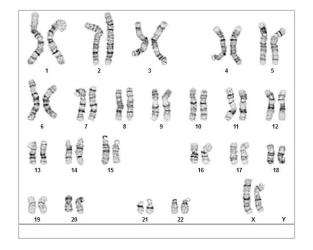
Date Reported: Friday, May 06, 2016

Cell Line: MIN06i-33110.2H-WB20163 11641

Passage#: 23

Date of Sample: 5/2/2016

Specimen: iPSC Results: 46,XX



Cell Line Gender: Female

Reason for Testing: Lot release testing

Investigator: , CDM

Cell: 21 Slide: 3

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 425 - 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 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, bar	nd 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	s 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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