

## **Thaw and Culture Details**

Cell Line Name	MIN03i-32642.B
WiCell Lot Number	WB20013
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	p13 These cells were cultured for 12 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	MIN03i-32342.B p13 WB20013
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	≥ 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-PCR (Flk, GATA2 - Meso; AFP, GATA4 - Endo; Pax6, N-CAM - Ectoderm
Teratoma	Teratama Formed
Pluripotency Markers; AP, Oct4, Nanog, SSEA-3, SSEA-4, TRA1-60	All Markers Expressed

Approval Date	Quality Assurance Approval
09-October-2015	6/21/2016  X DEW  DEW  Quality Assurance Signed by Wilson, Dustin



## 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:** 11635-STR

**Sample Name on Tube:** 11635-STR

 $80.7 \text{ ng/}\mu\text{L}$ , (A260/280=1.83)

Sample Type: Cells

**Cell Count:** ~2 million cells

**Requestor:** WiCell Research Institute

Quality Department

Sample Date: N/A Receive Date: 05/19/16 Assay Date: 05/24/16

File Name: STR 160525 wmr

**Report Date:** 06/02/16

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 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	

<u>Results:</u> Based on the 11635-STR cells submitted by WiCell QA dated and received on 05/19/16, this sample (Label on Tube: 11635-STR) defines the STR profile of the human stem cell line MIN03i-32642.B comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human MIN03i-32642.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 11635-STR sample submitted corresponds to the MIN03i-32642.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  $\sim 2-5\%$ .

<sup>1</sup>For this sample a microvariant exists at the D7S820 loci with a size between 10 and 11.

X RMB	Digitally Signed on 06/02/16	X WMR	Digitally Signed on	06/02/16
TRIP La	boratory, Molecular	UWHC Moled	, PhD, Director / Co-Director cular Diagnostics Laboratory / UWSM	PH TRIP Laboratory

#### Sterility Report

#### Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, I WiCell Quality Assurance	Inc.		BIOTEST SAMPLE #	15081899	
Wicell Addity Assolutice			VALIDATION #	NG	
			TEST PURPOSE	NG	
PRODUCT	WA09(LOXGFP)-WB2097 UWWC1-2DS3-WB20846 WC005i-FX11-7-WB20449 UWWC1-DS1-WB21343 1 WC-3801-2-WB21395 11 WA07-WB21842 11373 LT2e-H9CAGGFP-WB020 MIN01i-32517.A-WB2057 MIN03i-32642.B-WB2001 MIN04i-33109.2B-WB203	11369 9 11370 11371 372 07 11374 71 11375 3 11376			
PRODUCT LOT	NA				
STERILE LOT	NA		BI LOT	NA	
STERILIZATION LOT	NA		BI EXPIRATION DATE	NA	
STERILIZATION DATE	NA		DATE RECEIVED	2015-08-27	
STERILIZATION METHOD	NA		TEST INITIATED	2015-08-28	
SAMPLING BLDG / ROOM	NA		TEST COMPLETED	2015-09-11	
REFERENCE	Processed according to	D LAB-003: S	Sterility Test Procedure		
	Ten (10) products were were then cultured at 2 minimum of 14 days.	each divide 20-25 C and	ed between 40 mL TSB 30-35 C respectively c	and 40 mL FTG. Th and were monitored	e samples I for a
	☐ USP ☐ BI Manufacturers Spec ☐ Other	cifications			
RESULTS Sterile	# POSITIVES #	#TESTED 10	POSITIVE CONTF NA	ROL NEGATIVE ( 2 Nego	
COMMENTS NA					
REVIEWED BY		200	DATE _	11Sep15	

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



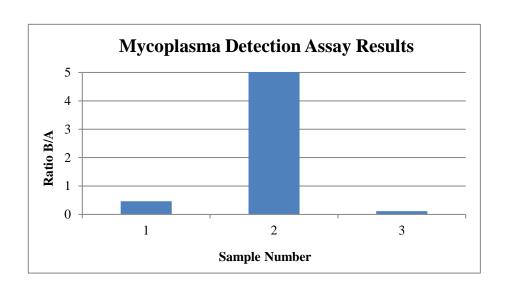


# Mycoplasma Detection Assay Report Testing Performed by WiCell

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	MIN03i-32642.B-WB20013 11635	160	160	160	75	73	74	0.46	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: 033634

Date Reported: Wednesday, May 04, 2016 Cell Line: MIN03i-32642.B-WB20013 11635

Passage#: 13

Date of Sample: 5/2/2016

Specimen: iPSC Results: 46,XX

Cell Line Gender: Female

Reason for Testing: lot release testing

Investigator: WiCell CDM

> Cell: 6 Slide: 1

Slide Type: Karyotype

Total Counted: 20 Total Analyzed: 8

Total Karyogrammed: 4 Band Resolution: 475 - 500

#### Interpretation:

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

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 numeric	al and structural chromosome ahno	ormalities. 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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