

Cell Line Information and Testing – Material Produced by Provider

Cell Line Characteristics

This table contains general information regarding the cell line.

Cell Line Name	MIN13i-33362.D
Cell Line Alias	MIN33362 D
Cell Type	Induced Pluripotent Stem Cell
Phenotype	Control
Sex	Male
Age at Collection	18 years
Reprogramming Method	Sendai Virus
Tissue Origin	Skin Fibroblast
Provider	Massachusetts General Hospital

Lot Specific Information The following culture information is for the specified lot.

WiCell Lot Number	WB19561					
Banked By WiCell						
Thaw Recommendation	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.					
Culture Platform	Feeder Independent					
	Medium: mTeSR1					
	Matrix: Matrigel					
Protocol	WiCell Feeder Independent mTeSR1 Protocol					
Passage Number	p17 These cells were cultured for 16 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	15-May-2015					
Vial Label	MIN13i-33362.D p17 WB19561					
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.					



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Testing Reported by Provider

Test Description & Method	Result
Genetic Analysis by Karyotype	Normal
Embryoid Body Formation	RT(q)PCR (Brachyury, GATA2 - Meso; AFP, Sox17 - Endo; Pax6, MAP2 - Ectoderm)
Teratoma	No Teratama Formed
Pluripotency Markers; AP, Oct4, Nanog, SSEA-3, SSEA-4, TRA1-60	All Markers Expressed

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	Consistent with known 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	Pass

Date Available	Quality Assurance Approval		
09-October-2015	X AMK		
33 33. 33 0. 20.0	AMK Quality Assurance Signed by:		



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: 11582-STR

Sample Name on Tube: 11582-STR

 $88.0 \text{ ng/}\mu\text{L}$, (A260/280=1.83)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 03/30/16 Assay Date: 04/05/16

File Name: 160407 STR JAM

Report Date: 04/1/16

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
Penta_D	2.2, 3.2, 5, 7-17	required, please,
CSF1PO	6-15	contact WiCell's Technical Support.
D16S539	5, 8-15	Technical 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 11582-STR cells submitted by WiCell QA dated and received on 03/30/16, this sample (Label on Tube: 11582-STR) defines the STR profile of the human stem cell line MIN13i-33362.D comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human MIN13i-33362.D 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 11582-STR sample submitted corresponds to the MIN13i-33362.D 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 04/11/16

X WMR Digitally Signed on 04/11/16

PhD, Director / Co-Director
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Sterility Report

Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, WiCell Quality Assurance	Inc.		BIOTEST SAMPLE #	15111558		
Wicell Additive Assortince			VALIDATION #	NG		
			TEST PURPOSE	NG		
PRODUCT LOT	WA28-WB25835 11480 WA39-WB26020 11483 MIN10i-33360.A-WB200 MIN13i-33362.D-WB195 NA	, WA42-WB25 114 11486, MI	5838 11484, WA45-WB2 N11i-33360.B-WB20012	25712 11485 11487		
STERILE LOT	NA		BILOT	NA		
STERILIZATION LOT	NA		BI EXPIRATION DATE	NA		
STERILIZATION DATE	NA		DATE RECEIVED	2015-11-18		
STERILIZATION METHOD	NA		TEST INITIATED	2015-11-25		
SAMPLING BLDG / ROOM	NA		TEST COMPLETED	TED 2015-12-09		
REFERENCE	Processed according to LAB-003: Sterility Test Procedure					
				5 C and 10 products were a minimum of 14 days.		
	☐ USP ☐ BI Manufacturers Spe ☐ Other	ecifications				
RESULTS Sterile	# POSITIVES 0	# TESTED 10	POSITIVE CONTR NA	OL NEGATIVE CONTROL 2 Negatives		
COMMENTS NA						
REVIEWED BY			DATE _	0905015		

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.

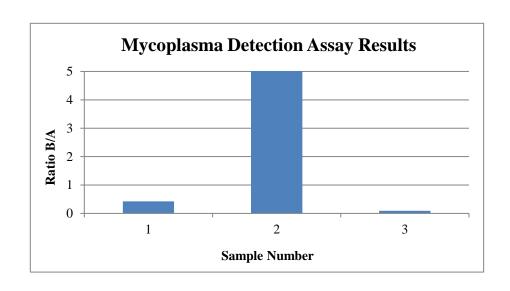


Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing March 17th, 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	MIN13i-33362.D-WB19561 11582	72	63	67.5	28	29	28.5	0.42	Negative	
2	Positive (+) Control	96	97	96.5	9977	9990	9984	103.46	Positive	
3	Negative (-) Control	214	216	215	20	20	20	0.09	Negative	





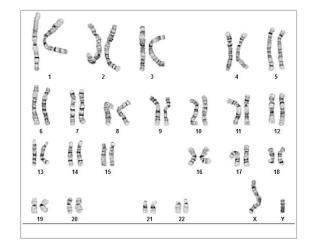
Chromosome Analysis Report: 032535

Date Reported: Wednesday, March 23, 2016 Cell Line: MIN13i-33362.D-WB19561 11582

Passage#: 17

Date of Sample: 3/18/2016

Specimen: iPSC Results: 46,XY



Cell Line Gender: Male

Reason for Testing: Lot release testing

Investigator: , WiCell CDM

Cell: 29 Slide: 1

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 450 - 525

QC Review By: _

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

Sent By:____

A signed copy of this report is available upon request.

_imitations:	This assay allows for microscopic	visualization of numerical and str	ructural chromosome abnormalities.	The size of structural abnormality	that can be detected
0 4014					

Sent To:

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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