

Cell Line Information and Testing – Material Produced by Provider

Cell Line Characteristics

This table contains general information regarding the cell line.

Cell Line Name	MIN14i-33363.C
Cell Line Alias	MIN33363 C
Cell Type	Induced Pluripotent Stem Cell
Disease	X-Linked Dystonia Parkinsonism
Phenotype	Affected
Sex	Male
Age at Collection	44 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	WB20811
Banked By	WiCell
Thaw Recommendation	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR1
	Matrix: Matrigel
Protocol	WiCell Feeder Independent mTeSR1 Protocol
Passage Number	p21 These cells were cultured for 20 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	29-June-2015
Vial Label	MIN14i-33363.C p21 WB20811
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 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	Pass

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	Teratama Formed
Pluripotency Markers; AP, Oct4, Nanog, SSEA-3, SSEA-4, TRA1-60	All Markers Expressed

Date Available	Quality Assurance Approval		
09-October-2015	10/11/2016 X AMK AMK Quality Assurance Signed by: Klade, Anjelica		



Short Tandem Repeat Analysis

info@wicell.org (888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

Sample Report: 11530-STR

Sample Name on Tube: 11530-STR $264.0 \text{ ng/}\mu\text{L}$, (A260/280=1.96)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor: WiCell Research Institute Quality Department

Sample Date: N/A **Receive Date:** 02/09/16 **Assav Date:** 02/23/16

File Name: STR 160229 wmr

Report Date: 03/02/16

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
Penta_D	2.2, 3.2, 5, 7-17	required, please, contact WiCell's
CSF1PO	6-15	Technical Support.
D16S539	5, 8-15	
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	

Results: Based on the 11530-STR cells submitted by WiCell QA dated and received on 02/09/16, this sample (Label on Tube: 11530-STR) defines the STR profile of the human stem cell line MIN14i-33363.C comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MIN14i-33363.C 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 11530-STR sample submitted corresponds to the MIN14i-33363.C stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

Sensitivity: Sensitivity limits for detection of STR polymorphisms unique to either this or other human stem cell lines is $\sim 2-5\%$.

 \mathbf{X} RMB \mathbf{X} WMR **Digitally Signed on** Digitally Signed on PhD, Director / Co-Director TRIP Laboratory, Molecular 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 #	16020409			
Wicell Quality Assorance			VALIDATION #	NG			
			TEST PURPOSE	NG			
PRODUCT	MIN19i-33811.D-WB2i MIN20i-34363.A-WB2i MIN21i-34363.B-WB2i MIN15i-33363.D-WB2i MIN14i-33363.C-WB2i MIN17i-33808.B-WB2i MIN16i-33808.A-WB2i DF19-9-7T-WB0136 1 JFHZ3-DB29774 1152 JFHZ2-DB29769 1152	0384 11515 0385 11516 0945 11517 0811 11518 0714 11519 0715 11520 1521					
PRODUCT LOT	NA						
STERILE LOT	NA		BI LOT	NA			
STERILIZATION LOT	NA		BI EXPIRATION DATE	NA			
STERILIZATION DATE	NA		DATE RECEIVED	2016-02-02			
STERILIZATION METHOD	NA		TEST INITIATED	2016-02-05			
SAMPLING BLDG / ROOM	NA		TEST COMPLETED	2016-02-19			
REFERENCE	Processed according	g to LAB-003: S	iterility 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 ☐ BI Manufacturers S ☐ Other	Specifications					
RESULTS Sterile	# POSITIVES 0	#TESTED 10	POSITIVE CONTR NA	OL NEGATIVE CONTROL 2 Negatives			
COMMENTS NA							
REVIEWED BY _			DATE	22 FEB 16			

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

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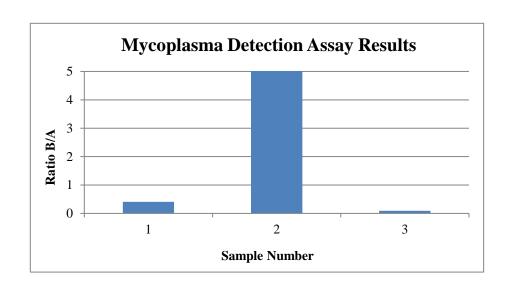
STERIS



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Test February 4th, 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	MIN14i-33363.C-WB20811 11530	110	103	106.5	44	43	43.5	0.41	Negative	
2	Positive (+) Control	115	119	117	9701	9657	9679	82.73	Positive	
3	Negative (-) Control	247	241	244	21	23	22	0.09	Negative	





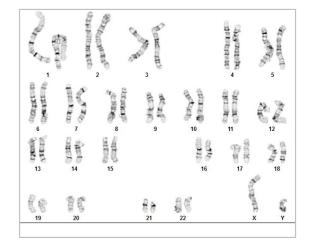
Chromosome Analysis Report: 030584

Date Reported: Tuesday, February 09, 2016 Cell Line: MIN14i-33363.C-WB20811 11530

Passage#: 21

Date of Sample: 2/4/2016

Specimen: iPSC Results: 46,XY



Cell Line Gender: Male

Reason for Testing: Lot release testing

Investigator: , WiCell CDM

Cell: 1 Slide: 2

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 450 - 550

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

Sent By:

A signed copy of this report is available upon request.

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I imitations	. This seems allows for misroscopic wie	unalization of numerical and atment	unal abramacana abramalitica	The size of structural abnormality	that are be detact	
Liffillations	s: This assay allows for microscopic vis	suanzalion oi numencai and siruclu	rai crirornosome apriormanues.	THE SIZE OF STRUCTURAL ADMOTTRAINS	inal can be delecti	ec

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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