



## Cell Line Information and Testing – Material Produced by Provider

### Cell Line Characteristics

This table contains general information regarding the cell line.

Cell Line Name	MIN22i-33113.2I
Cell Line Alias	MIN33113 2I
Cell Type	Induced Pluripotent Stem Cell
Phenotype	Control
Sex	Male
Age at Collection	42 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	WB19575
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	p19 These cells were cultured for 18 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 Vialled	16-May-2015
Vial Label	MIN22i-33113.2I p19 WB19575
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.




## Cell Line Information and Testing – Material Produced by Provider

### 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)
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	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

Date Available	Quality Assurance Approval
13-October-2015	<div style="text-align: right; font-size: small;">3/17/2016</div> <div style="text-align: center;">             AMK            Quality Assurance            Signed by: <span style="background-color: black; color: black;">XXXXXXXXXX</span> </div>



# Short Tandem Repeat Analysis



Department of Pathology and Laboratory Medicine  
TRIP Laboratory (Molecular)  
<http://www.pathology.wisc.edu/research/trip>

WiCell®  
info@wicell.org  
(888) 204-1782

**Sample Report:**

11526-STR  
**Sample Name on Tube:** 11526-STR  
137.4 ng/μL, (A260/280=1.88)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Department

**Sample Date:** N/A

**Receive Date:** 02/09/16  
**Assay 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 been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support.</a>
TPOX	6-13	
D8S1179	7-18	
vWA	10-22	
Amelogenin	X,Y	
Penta_D	2.2, 3.2, 5, 7-17	
CSF1PO	6-15	
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 11526-STR cells submitted by WiCell QA dated and received on 02/09/16, this sample (Label on Tube: 11526-STR) defines the STR profile of the human stem cell line MIN22i-33113.2i comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human MIN22i-33113.2i 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 11526-STR sample submitted corresponds to the MIN22i-33113.2i 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 ~2-5%.

**X<sub>RMB</sub>** Digitally Signed on 03/02/16  
[Redacted]  
TRIP Laboratory, Molecular

**X<sub>WMR</sub>** Digitally Signed on 03/02/16  
[Redacted] PhD, Director / Co-Director  
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only. Acknowledge TRIP in your publications, posters & presentations. For details, see: <http://www.pathology.wisc.edu/research/trip/acknowledging> TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (<http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a>).

# Sterility Report

Biotest Laboratories, Inc.

*Making life-saving products possible*

WiCell Research Institute, Inc.  
WiCell Quality Assurance

BIOTEST SAMPLE # 15071050

VALIDATION # NG

TEST PURPOSE NG

PRODUCT Zeng02i-iPSH14-WB19497 11328  
WIC01i-02-1c-WB18031 11329  
WIP06i-iPSCas9Het-WB18995 11330  
WA01-WB16377 11331  
MIN07i-33113.2D-WB19574 11332  
MIN22i-33113.2I-WB19575 11333  
MIN08i-33114.B-WB19546 11334  
MIN09i-33114.C-WB19768 11335  
MIN12i-33362.C-WB19545 11336  
WC-24-02-DS-M-WB18754 1337

PRODUCT LOT NA

STERILE LOT NA

BI LOT NA

STERILIZATION LOT NA

BI EXPIRATION DATE NA

STERILIZATION DATE NA

DATE RECEIVED 2015-07-14

STERILIZATION METHOD NA

TEST INITIATED 2015-07-15

SAMPLING BLDG / ROOM NA

TEST COMPLETED 2015-07-29

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  
 BI Manufacturers Specifications  
 Other

RESULTS  
Sterile

# POSITIVES  
0

# TESTED  
10

POSITIVE CONTROL  
NA

NEGATIVE CONTROL  
2 Negatives

COMMENTS NA

REVIEWED BY

DATE 29 JUL 15

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

Lot Release Test

February 4th, 2016

FORM SOP-QU-004.01

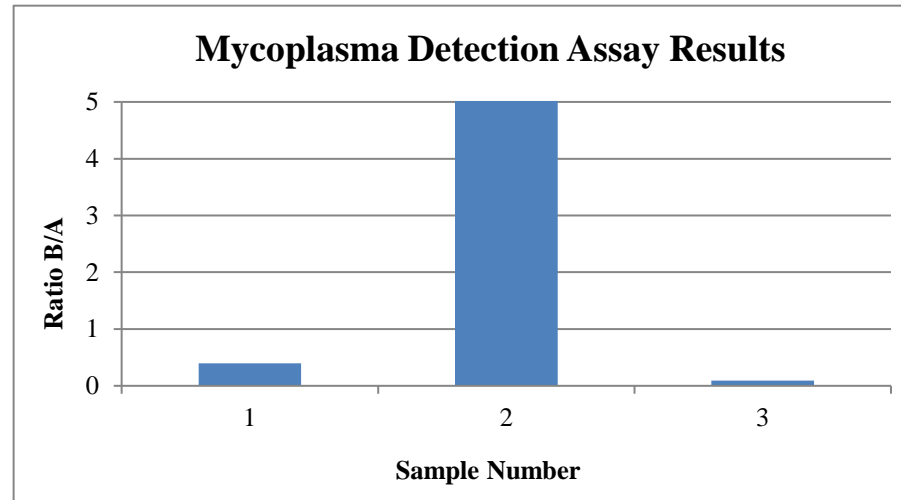
Version E Edition 01

Reported by: SS

Reviewed by: JB

Berthold Flash n' Glo 539

#	Sample Name	Reading A			Reading B			Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2	Ave	RLU1	RLU2	Ave			
1	MIN22i-33113.2I-WB19575 11526	88	87	87.5	36	33	34.5	0.39	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	



**Date Reported:** Wednesday, February 10, 2016

**Cell Line Gender:** Male

**Cell Line:** MIN22i-33113.2i-WB19575 11526

**Reason for Testing:** Lot release testing

**Passage#:** 19

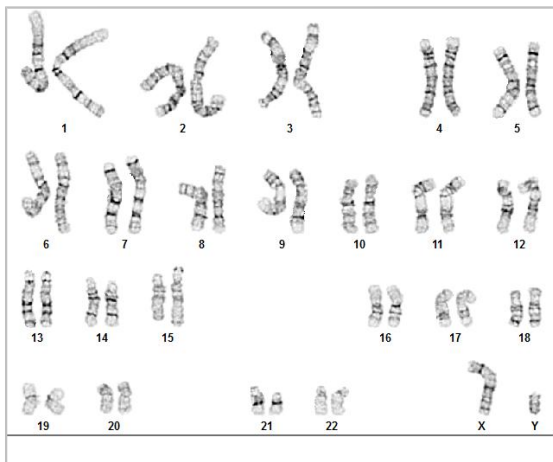
**Date of Sample:** 2/5/2016

**Investigator:** [REDACTED], WiCell CDM

**Specimen:** iPSC

**Results:** 46,XY

**Nonclonal findings:** 47,XY,+17



**Cell:** 14

**Slide:** 1

**Slide Type:** Karyotype

**Total Counted:** 40

**Total Analyzed:** 8

**Total Karyogrammed:** 4

**Band Resolution:** 450 - 525

### Interpretation:

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

**There is one nonclonal finding, listed above. Standard analysis requires that chromosomes are counted in twenty cells. Twenty additional cells were examined with no further evidence of this nonclonal aberration. Nonclonal findings likely result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.**

**Completed By:** [REDACTED], CG(ASCP)

**Reviewed and Interpreted By:** [REDACTED], 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 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".*

*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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