

### **Thaw and Culture Details**

Cell Line Name	B2M-/Etrimer Elf1		
WiCell Lot Number	WB67154		
Provider	University of Washington – Dr. David Russell		
Banked By	WiCell		
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.		
Culture Platform	Feeder Dependent		
	Medium: Elf1 cKoSR		
	Matrix: MEF		
Protocol	WiCell Feeder Dependent Protocol and Supplement Culture of Elf1 Cells		
Passage Number	p14 These cells were cultured for 13 passages prior to freeze and post colony picking. WiCell adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 14.		
Date Vialed	08-April-2019		
Vial Label	B2M-/Etrimer Elf1 hESC p14 WB67154		
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** 

	1 0 0 0111 9 1 0	<u> </u>		
Test Description	Test Provider	Test Method	Test Specification	Result
	WiCell	SOP-CH-003	Expected karyotype	See Report
			)(q24),del(18)(q21.3)[4]/46,XX[2]	
			There are two related abnormal clon	
			wenty cells examined; representativ	
Karyotype by G-banding			of chromosome 18. Loss of chromo	osome 18q is
	recurrently acquired in plu	•		
		` `	cells examined; representative imag	,
	the deletion of chromosome 18 and a terminal deletion of the long (q) arm of chromosome 11. No other clonal abnormalities were detected at the stated band level of resolution.			
	other clonal abnormalities	were detected at the		
			≥ 15 Undifferentiated Colonies,	
Post-Thaw Viable Cell	WiCell	SOP-CH-305	≤ 30% Differentiation and	Pass
Recovery	11100	301 311 333	recoverable attachment after	1 466
			passage	
Identity by STR	UW Translational	PowerPlex 16 HS	Defines STR profile of deposited	
	Research Initiatives in	System by	cell line	Pass
	Pathology Laboratory	Promega	CON INTO	
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass



Testing Reported by Provider

The provider has published the following testing and results for this cell line. A link to the relevant publication is provided on the cell line specific web page on the WiCell website.

Test Description	Result	Report
Karyotype by G-banding	46,XX 90,XXXX,-	Report not available

Approval Date	Quality Assurance Approval
06-June-2019	S-FE/C0200  X HEB  NIS  Coally Assurance Signed by Stown Haby



#### Chromosome Analysis Report: 076162

Date Reported: Tuesday, April 30, 2019 Cell Line Sex: Female

Cell Line: B2M-/Etrimer Elf1 hESC-WB67154 Reason for Testing: lot release testing

14555

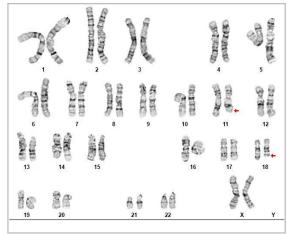
Passage#: 14

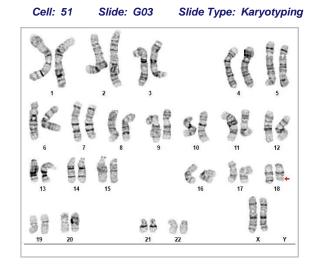
Date of Sample: 4/18/2019 Investigator: WiCell

Specimen: Human IPS

Results: 46,XX,del(18)(q21.3)[14]/46,XX,del(11)(q24),del(18)(q21.3)[4]/46,XX[2]

Cell: 12 Slide: G01 Slide Type: Karyotyping





Total Counted: 20
Total Analyzed: 9

Total Karyogrammed: 4
Band Resolution: 450 - 500

#### Interpretation:

This is an abnormal karyotype. There are two related abnormal clones.

The cells in the predominant clone (fourteen of twenty cells examined; representative image on right) contain an interstitial deletion of the long (q) arm of chromosome 18. Loss of chromosome 18q is recurrently acquired in pluripotent stem cell cultures.

The cells in the secondary clone (four of twenty cells examined; representative image on left) contain the deletion of chromosome 18 and a terminal deletion of the long (q) arm of chromosome 11.

No other clonal abnormalities were detected at the stated band level of resolution.

Date:	Sent By:	Sent To:	QC Review By:
Reviewed and Interpreted by:		PhD, FACMG	
Completed by:		, CG(ASCP)	

Case #: Cell Line:

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### **Short Tandem Repeat Analysis** HISTOLOGY - IHC - MOLECULAR - IMAGING

WiCell Research Institute

Quality Assurance Department

**Requestor:** 

Your Lab Partner

characterization@wicell.org (608) 316-4145

**Receive Date:** 04/29/19 **Report Sent:** 05/03/19 **Assav Date:** 05/01/19

File Name: STR 190501 wmr

**Report Date:** 05/03/19

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) https://research.pathology.wisc.edu/trip-home/ (608) 265-9168

**Sample Report:** 14555-STR

Sample Name on Tube: 14555-STR

 $69.7 \text{ ng/}\mu\text{L}$ , (A260/280=1.90)

Sample Type: Cells

Cell Count: ~2 million cells

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
Penta D	2.2, 3.2, 5, 7-17	is required,
CSF1PO	6-15	please, contact
D16S539	5, 8-15	WiCell's Technical Support.
D7S820	6-14	Support.
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 14555-STR cells submitted by WiCell QA dated and received on 04/29/19, this sample (Label on Tube: 14555-STR) defines the STR profile of the human stem cell line B2M-/Etrimer Elf1 hESC comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human B2M-/Etrimer Elf1 hESC stem cell line were detected however, allelic imbalance (denoted by \*\* in table above) was observed at the D18S51 loci and could be the result of chromosomal gains, losses, and/or amplifications in this cell line. The signal strength of allele 18 at this loci is much less evident relative to allele 15. 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 14555-STR sample submitted corresponds to the B2M-/Etrimer Elf1 hESC 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 WMR  $\mathbf{X}$  RMB Digitally Signed on 05/03/19 Digitally Signed on 05/03/19 , PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

## Native Product Sterility Report



SAMPLE #:

19050849

WiCell

504 S Rosa Road, Rm 101

Madison, WI 53719

DATE RECEIVED:

09-May-19

TEST INITIATED:

15-May-19

**TEST COMPLETED:** 

29-May-19

SAMPLE NAME / DESCRIPTION:

MCW057i-A3286 B2M-/Etrimer Elf1

WB67153 WB67154 14647 14648

MCW033i-A7195

WB67156

14649

MCW061i-40000329

WB67157 WB67158 14650

MCW059i-40001067 MCW070i-40002330

WB67159

14651 14652

B2M-/- Elf1

WB67160

14653 14654

JHU210i WB67162 MCW052i-40001760

WB67163

14655

B2M-/Edimer Elf1 MCW063i-40000190 WB67155 WB67164 14656 14657

MCW063i-40000190 MCW065i-40001296

B2M-/Edimer(preCre)Elf1

WB67165

14658 14659

MCW069i-40000268 MCW093i-40000435 WB67167

WB67166

14660

MCW093i-40000435 PACS1003i-GM27161

WB67168 DB67161 14661 14662

STAN011i-123-1

DB31129

14663

STAN012i-123-2 STAN015i-178-1 DB31135 DB31094 14664 14665

STAN016i-178-2

DB31107

14666

**UNIQUE IDENTIFIER:** 

NA

**TEST RESULTS:** 

# Tested	# Positives (Growth)	- Control
20	0	2 Negatives

**TEST SUMMARY:** 

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
20	TSB	40	20-25	14
20	FTG	40	30-35	14

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

PD #:

000053

TEST METHODOLOGY:

**USP** - Direct Transfer

STERIS Laboratories 9303 West Broadway Ave Brooklyn Park, MN 55445 LAB-003 rev 32 Form 5 Effective: Nov 29, 2018 Page 1 of 2

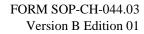
# Native Product Sterility Report



C	OMN	/FN	TS	•	NA
$\smile$		A111.A		•	14/

REVIEWED BY	Man	DATE 29MAV19
	***************************************	

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. This test report shall not be reproduced, except in full, without prior written approval. Liability is limited to the costs of the tests. Results applied to samples as received.



# WiCell

### Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell 28May19

#	Sample Name	Result	Comments/Suggestions
1	B2M-/Etrimer Elf1-WB67154 14727	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
2	Positive (+) Control	Positive	
3	Negative (-) Control	Negative	

Reported by: Gustavo Velazquez, Research Specialist- Cytogenetics

Reviewed by: Katie Remondini, Cell Culture Specialist

Date:\_\_\_\_\_ Sent By:\_\_\_\_ Sent To\_\_\_\_\_

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A gel image is available upon request.