

Thaw and Culture Details

Cell Line Name	IISH2i-BM9
WiCell Lot Number	WB33257
Parent Material	IISH2i-BM9-WB0266
Provider	University of Wisconsin – Dr. Igor Slukvin
Banked By	WiCell
Thaw and Culture Recommendations	The Provider recommends thawing 1 vial into 4 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p26 These cells were cultured for 25 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	20-April-2016
Vial Label	IISH2i-BM9 p26 WB33257
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	Consistent with STR profile of deposited cell line	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

Approval Date	Quality Assurance Approval
21-June-2016	7/14/2020 X AA AA Osallry Assurance Signed by Annz, Andy



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: 11629-STR

Sample Name on Tube: 11629-STR

 $72.3 \text{ ng/}\mu\text{L}$, (A260/280=1.88)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Department

Sample Date: N/A Receive Date: 05/11/16 Assay Date: 05/17/16

File Name: STR 160518 wmr

Report Date: 05/23/16

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
Penta_D	2.2, 3.2, 5, 7-17	is required, please, contact
CSF1PO	6-15	WiCell's Technical
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 11629-STR cells submitted by WiCell QA dated and received on 05/11/16, this sample (Label on Tube: 11629-STR) exactly matches the STR profile of the human stem cell line IISH2i-BM9 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human IISH2i-BM9 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 11629-STR sample submitted corresponds to the IISH2i-BM9 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	05/23/16	X WMR	Digitally Signed on	05/23/16
TRIP La	boratory, Molecular	_	UWHC Molec	, PhD, Director / Co-Director ular Diagnostics Laboratory / UWSM	

Making life-saving products possible

CORRECTED REPORT

WiCell Research Institute, Inc.	
WiCell Quality Assurance	

BIOTEST SAMPLE #

16051350

VALIDATION #

NG

TEST PURPOSE

NG

PRODUCT

WA43-WB32660 11659, WA38-WB32549 11656, WA47-WB32596 11658, WA46-WB32595 11657, WA35-WB32392 11654, WA40-WB32393 11660, WA32-WB32295 11652, WA37-WB32294 11655, WA41-WB33024 11661, WA30-WB32033 11651, WA33-WB32032 11653, RUES2-WB33127 11630, WA44-WB33154 11662, WC-52-01U-TG-1-WB33842 11675, WC-52-01U-TG-2-WB33843 11676, WC-52-01U-TG-3-WB33844 11677, iPS(IMR90)-4-WB33712 11663, MIN04i-33109.2B-WB33713 11664, WA14-WB33693 11665, MIN14i-33363.C-WB33622 11666, H9 hNanog-pGZ-WB33582 11667, H9 Cre-LoxP-WB33296 11668, NSC-H14iPSZeng-WB33374 11669, IISH2i-BM9-WB33257 11670, IISHi-BM1-WB33256 11671, WC-52-01A-TG-1-WB33850 11678, WC-52-01A-TG-2-WB33852 11679, WC-52-01A-TG-3-WB33853 11680, MINO3i-32642.B-WB33911 11672

PRODUCT LOT

NA

STERILE LOT

NA

BILOT

NA

STERILIZATION LOT

STERILIZATION DATE

NA

BI EXPIRATION DATE NA

2016-05-19

NA

DATE RECEIVED **TEST INITIATED**

2016-05-20

STERILIZATION METHOD NA SAMPLING BLDG / ROOM NA

TEST COMPLETED

2016-06-03

REFERENCE

Processed according to LAB-003: Sterility Test Procedure

Twenty-nine (29) products were divided between 40 mL TSB and 40 mL FTG. The sample was then cultured at 20-25 C and 30-35 C respectively and was monitored for

a minimum of 14 days.

☑ USP

BI Manufacturers Specifications

☐ Other

RESULTS No Growth # POSITIVES 0

TESTED 29

POSITIVE CONTROL NA

NEGATIVE CONTROL 2 Negatives

COMMENTS

Report revised due to updated product name.

REVIEWED BY

DATE DUNIN

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

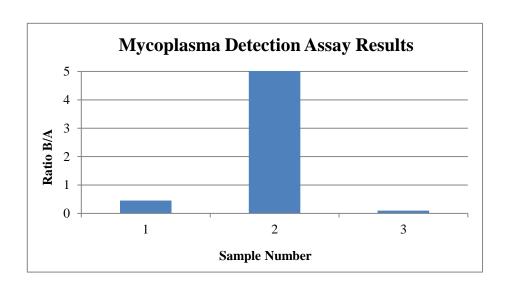


Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing April 28th, 2016

FORM SOP-QU-004.01 Version E Edition 01 Reported by: SS Reviewed by: JB Berthold Flash n' Glo 539

		Reading A A		Reading B		B Ratio				
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	IISH2i-BM9-WB33257 11629	147	152	149.5	67	68	67.5	0.45	Negative	
2	Positive (+) Control	267	262	264.5	16713	16786	16750	63.33	Positive	
3	Negative (-) Control	424	421	422.5	39	43	41	0.10	Negative	





Chromosome Analysis Report: 033720

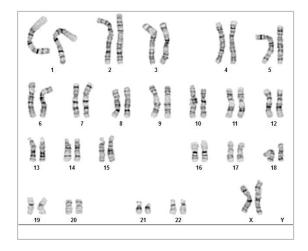
Date Reported: Wednesday, May 11, 2016

Cell Line: IISH2i-BM9-WB33257 11629

Passage#: 27

Date of Sample: 5/4/2016

Specimen: iPSC Results: 46,XX



Cell Line Gender: Female

Reason for Testing: Lot release testing

Investigator: , WiCell CDM

Cell: 59 Slide: 1

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 550

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

A signed copy of this report is available upon request.

Limitations:	This assay	allows for micro	oscopic visuali	ization of nu	merical and s	structural chr	romosome al	bnormalities.	The size of stru	ctural abnorma	ality that can be	detected
is >3-10Mb,	dependent	upon the G-ba	nd resolution (obtained froi	m this specim	en. For the p	purposes of	this report, be	and level is defin	ed as the num	ber of G-bands	per
hanlaid aan		an imported bor	a a a "band lav	al" : a tha :	vanaa af bana	da datarmina	d from the fo		an in thin annu	Dotootion of b	atarananiti af	alamal

Sent By:____ Sent To:____

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.

Unless otherwise mutually agreed in writing, the services provided to you hereunder by WiCell Research Institute, Inc. ("WiCell") are governed solely by WiCell's Terms and Conditions of Service, found at www.wicell.org/privacyandterms. Any terms you may attach to a purchase order or other document that are inconsistent, add to, or conflict with WiCell's Terms and Conditions of Service are null and void and of no legal force or effect.