

Thaw and Culture Details

Cell Line Name	IISH2i-BM9-PCBC						
WiCell Lot Number	DB36871						
Provider	WiCell Research Institute						
Banked By	National Heart, Lung and Blood Institute Progenitor Cell Biology Consortium (NHLBI PCBC)						
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results. The Provider recommends only dispase passaging.						
Culture Platform	Feeder Independent						
	Medium: mTeSR™1						
	Matrix: Matrigel®						
Protocol	WiCell Feeder Independent mTeSR™1 Protocol						
Passage Number p28 These cells were cultured for 27 passages prior to freeze. The Provider adds +1 to the number at freeze to best represent what the overall passage number of the cells at that at thaw should be labeled passage 28.							
Date Vialed	17-AUGUST-2015						
Vial Label SC13-044 p28 17Aug2015 RAS							
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				
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report				
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	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	Steris	ST/07	Negative	Pass				
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass				



Testing Reported by Provider

The Provider stated that some or all of the additional analyses listed below may have been performed for this cell line. For more information, publication and Synapse links, where available, are provided on the cell line specific web page on the WiCell website.

- RNA-Seq
- Teratoma representative of all three embryonic germ layers identified in all tumors with histopathological analysis
- SNP microarray
- Immunostaining analysis to confirm pluripotency and OCT4 to evaluate the presence of undifferentiated PSC
- mRNA, miRNA, and methylation profiling
- Genemoics characterization
- Flow Cytometry (SSEA-1, SSEA-4, Tra 1-61, Tra 1-80, CD9, OCT-4)

Approval Date	Quality Assurance Approval		
31-January-2019	7/10/2020 X AA AA Quality Accurance Signed by Arriz, Andy		



Chromosome Analysis Report: 074539

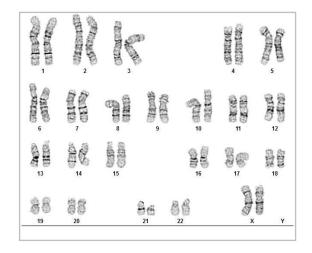
Date Reported: Saturday, January 12, 2019

Cell Line: IISH2i-BM9-DB36871-14213

Passage#: 29

Date of Sample: 1/8/2019 Specimen: Human IPS

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: Lot Release Testing

Investigator: . WiCell

Cell: 8

Slide: G03

Slide Type: Karyotype

Total Counted: 20 Total Analyzed: 8

Total Karyogrammed: 4 Band Resolution: 475 - 525

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

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 of this assay are for research use only. 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.



Short Tandem Repeat HISTOLOGY - IHC - MOLECULAR - IMAGING

WiCell Research Institute

Quality Assurance Department

Requestor:

Analysis



characterization@wicell.org (608) 316-4145

Receive Date: 01/22/19 **Report Sent:** 01/29/19

File Name: STR 190125 wmr

Report Date: 01/28/19

Assav Date: 01/24/19

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

https://research.pathology.wisc.edu/trip/ (608) 265-9168

Sample Report: 14213-STR

Sample Name on Tube: 14213-STR

 $85.1 \text{ ng/}\mu\text{L}$, (A260/280=1.87)

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, please, contact WiCell's Technical			
CSF1PO	6-15				
D16S539	5, 8-15	Support.			
D7S820	6-14	<u> </u>			
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 14213-STR cells submitted by WiCell QA dated and received on 01/29/18, this sample (Label on Tube: 14213-STR) exactly matches the STR profile of the human stem cell line IISH2i-BM9 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: 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 14213-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.

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

X RMB	Digitally Signed on	01/29/19	X WMR	Digitally Signed on	01/29/19
TRIP La	, BA boratory, Molecular		UWHC Mole	, PhD, Director / Co-Direct cular Diagnostics Laboratory / UW	

Native Product Sterility Report



SAMPLE #:

18121076

WiCell

DATE RECEIVED:

13-Dec-18

504 S Rosa Road, Rm 101

TEST INITIATED:

17-Dec-18

Madison, WI 53719

TEST COMPLETED:

31-Dec-18

SAMPLE NAME / DESCRIPTION:

LUEL8363i-3 WB66952 14169, JHU088i DB41240 14170, JHU132i DB36272 14171, JHU102i DB41279 14172, JHU103i DB36236 14173, iPS DF19-9-7T DB36826 14174, iPS DF4-3-7T.A DB36837 14175, iPS DF6-9-9T.B DB36844 14176, MIRJT7i-mND2-0 DB36854 14177, IISH1i-BM1 DB36864 14178, IISH2i-BM9 DB36871 14179, IISH3i-CB6 DB36881 14180, WA01 DB36785 14181, WA07 DB36888 14182, WA09 DB36899 14183, WA24 DB36798 14184, JHU155i DB41365 14185, JHU184i DB41392 14186, JHU142i DB41344 14187,

WA09 NA65899 14189.

UNIQUE IDENTIFIER:

NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	1	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

COMMENTS:

Sample labeled P142 P6 6/16/16 0.9M is positive in TSB and FTG media.

Reported as per packing slip.

REVIEWED BY

DATE TO

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.

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

PRINTED ON 1/2/2019



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing January 3, 2019

FORM SOP-QU-004.01 Version G Edition 02 Reported by: SM Reviewed by: JB Berthold Flash n' Glow 539

		Read	ing A	A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	IISH2i-BM9-DB36871 14213	102	112	107	36	36	36	0.34	Negative	
2	Positive (+) Control	133	135	134	6141	6191	6166	46.01	Positive	
3	Negative (-) Control	277	287	282	27	29	28	0.10	Negative	

