

Thaw and Culture Details

Cell Line Name	WC-24-02-DS-A					
WiCell Lot Number	WB18711					
Provider	University of Wisconsin –Dr. Anita Bhattacharyya					
Banked By	WiCell					
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR™1 and Matrigel®					
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol					
Culture Platform Prior to Freeze	Feeder Independent					
	Medium: mTeSR™1					
	Matrix: Matrigel®					
Passage Number	p19 These cells were cultured for 18 passages prior to freeze. WiCell adds +1 to the passage number at freeze to best represent the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 19.					
Date Vialed	14-April-2015					
Vial Label	WC-24-02-DS-A p19 WB18711					
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	Wi(∷ell		≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

Approval Date	Quality Assurance Approval		
28-May-2015	8/27/2020 X JKG XKG Quality Assurance Signed by Gay, Anna		



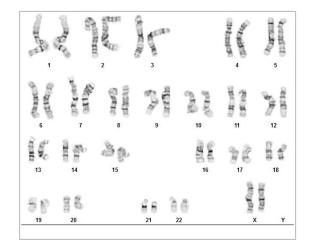
Chromosome Analysis Report: 018976

Date Reported: Wednesday, April 29, 2015 Cell Line: WC-24-02-DS-A-WB18711 11242

Passage#: 19

Date of Sample: 4/22/2015

Specimen: iPSC Results: 46,XX



Cell Line Gender: Female

Reason for Testing: Lot release testing

Investigator: , WiCell CDM

Cell: 35 Slide: 2

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9
Total Karyotyped: 4

Band Resolution: 450 - 475

QC Review By: _

Interpretation:

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

Completed by:	MS, CG(ASCP)
Reviewed and Interpreted by:	PhD, FACMG

Sent By:____

A signed copy of this report is available upon request.

_imitations:	This assay allows for microscopic	visualization of numerical and str	ructural chromosome abnormalities.	The size of structural abnormality	that can be detected
0 4014					

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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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: 11242-STR

Sample Name on Tube: 11242-STR 148.6 ng/μL, (A260/280=1.94)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:WiCell Research Institute
Quality Department

Sample Date: N/A Receive Date: 05/04/15 Assay Date: 05/05/15 File Name: 150507 str jam Report Date: 05/12/15

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	
TPOX	6-13	information has	
D8S1179	7-18	been redacted to	
vWA	10-22	protect donor confidentiality. If	
Amelogenin	X,Y	more information	
Penta_D	2.2, 3.2, 5, 7-17	is required,	
CSF1PO	F1PO 6-15		
D16S539	5, 8-15	WiCell's Technical	
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		

<u>Results:</u> Based on the 11242-STR cells submitted by WiCell QA dated and received on 05/04/15, this sample (Label on Tube: 11242-STR) defines the STR profile of the human stem cell line WC-24-02-DS-A comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human WC-24-02-DS-A 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 11242-STR sample submitted corresponds to the WC-24-02-DS-A 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	05/12/15	X WMR	Digitally Signed on	05/12/15
TRIP La	boratory, Molecular		UWHC Moleculo	, PhD, Director / Co-Director ar Diagnostics Laboratory / UWSN	

Sterility Report

Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc.

WiCell Quality Assurance

505 South Rosa Road, Suite 120

Madison, WI 53719

BIOTEST SAMPLE # 15050336

VALIDATION #

NG

TEST PURPOSE

NG

PRODUCT WIPO5i-iPSCas9KO-WB17902 11253

RUES3-DB18144 11255

WC005i-FX11-7-WB18030 11256 WIC02i-02-05-WB18279 11257 PACT-ESC-WA01-RB18519 11258 PACT-ESC-WA01-RB18522 11259 WIP07e-H9Cas9Het-WB18521 11260 WIPO6i-iPSCas9Het-WB18520 11261 UWWC1-DS4-WB18225 11262 UWWC1-2DS3-WB18532 11263 WC-24-02-DS-C-WB18862 11264 WC-24-02-DS-B-WB18712 11265 WC-24-02-DS-M-WB18754 11266 UWWC1-DS2U-WB19012 11267 WIC07i-07982-4-WB18972 11268 WC-24-02-DS-P-WB18907 11269 WC-24-02-DS-A-WB18711 11270 WC-24-02-DS-O-WB19180 11271

PRODUCT LOT NA

STERILE LOT NA

BI LOT NA

STERILIZATION LOT NA

BI EXPIRATION DATE NA

STERILIZATION DATE NA

DATE RECEIVED

TEST INITIATED 2015-05-07

STERILIZATION METHOD NA

2015-05-06

SAMPLING BLDG / ROOM NA

TEST COMPLETED

2015-05-21

REFERENCE Processed according to LAB-003: Sterility Test Procedure

WC-3801-5-WB16647 11272

Nineteen (19) 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

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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BIOTEST SAMPLE # 15050336

RESULTS

POSITIVES

TESTED 19

POSITIVE CONTROL

NEGATIVE CONTROL

NA

2 Negatives

Non-Sterile

One (1) sample labeled as WC-24-02-DS-M-WB18754 11266 had growth in FTG.

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



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing 04-27-2015

FORM SOP-QU-004.01 Version D 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	WC-24-02-DS-A-WB18711-11242	190	190	190	58	62	60	0.32	Negative	
2	Positive (+) Control	261	260	260.5	6542	6533	6538	25.10	Positive	
3	Negative (-) Control	441	438	439.5	36	37	36.5	0.08	Negative	

