




## Thaw and Culture Details

Cell Line Name	<b>UWWC1-2DS3</b>
WiCell Lot Number	<b>WB20846</b>
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.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p24 These cells were cultured for 23 passages prior to freeze, 4 of them in mTeSR1/Matrigel. 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 Viald	02-July-2015
Vial Label	UWWC1-2DS3 p24 WB20846
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	Pass
	<b>Result from report: This is an abnormal karyotype. Twenty of twenty cells examined have an extra chromosome 21 (trisomy 21). No other abnormalities were found.</b>			
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

Approval Date	Quality Assurance Approval
21-September-2015	<div style="text-align: right;">8/9/2017</div>  <small>AMK Quality Assurance Signed by Klade, Anjelica</small>

**Date Reported:** Friday, July 24, 2015

**Cell Line:** UWWC1-2DS3-WB20846 11340

**Passage#:** 25

**Date of Sample:** 7/15/2015

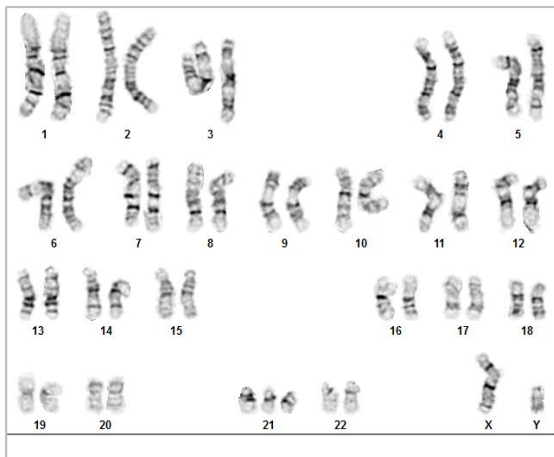
**Specimen:** iPSC

**Results:** 47,XY,+21[20]

**Cell Line Gender:** Male

**Reason for Testing:** Lot release testing

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



**Cell:** 11

**Slide:** 1

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyotyped:** 4

**Band Resolution:** 450 - 550

**Interpretation:**

**This is an abnormal karyotype. Twenty of twenty cells examined have an extra chromosome 21 (trisomy 21). No other abnormalities were found.**

**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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# 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:**

11340-STR  
**Sample Name on Tube:** 11340-STR  
113.9 ng/μL, (A260/280=1.91)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Department

**Sample Date:** N/A

**Receive Date:** 08/04/15  
**Assay Date:** 08/12/15  
**File Name:** 150813 STR CLN  
**Report Date:** 08/17/15  
revised 09/14/15

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 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 11340-STR cells- submitted by WiCell QA dated and received on 08/04/15, this sample (Label on Tube: 11340-STR) defines the STR profile of the human stem cell line UWWC1-2DS3 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human UWWC1-2DS3 stem cell line were detected however, allelic imbalance (denoted by \*\* in table above) was observed at the D21S11 loci and could be the result of chromosomal gains and/or losses in this cell line. The signal strength for the homozygous 7 allele at Penta\_D is at least 3-fold stronger than other tested loci (with the exception of D3S1358). This line is a clinical model for Trisomy 21, consequently imbalance makes sense with regards to D21S11 and the signal strength at the Penta\_D loci. 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 11340-STR sample submitted corresponds to the UWWC1-2DS3 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** *RMB*  
Digitally Signed on 09/14/15  
\_\_\_\_\_  
[Redacted]  
TRIP Laboratory, Molecular

**X** *WMR*  
Digitally Signed on 09/14/15  
\_\_\_\_\_  
[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>

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# Sterility Report

Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc.  
WiCell Quality Assurance



BIOTEST SAMPLE # 15081899

VALIDATION # NG

TEST PURPOSE NG

PRODUCT WA09(LOXGFP)-WB20971 11368  
UWWC1-2DS3-WB20846 11369  
WC005i-FX11-7-WB20449 11370  
UWWC1-DS1-WB21343 11371  
WC-3801-2-WB21395 11372  
WA07-WB21842 11373  
LT2e-H9CAGGFP-WB0207 11374  
MIN01i-32517.A-WB20571 11375  
MIN03i-32642.B-WB20013 11376  
MIN04i-33109.2B-WB20383 11377

PRODUCT LOT NA

STERILE LOT NA

STERILIZATION LOT NA

STERILIZATION DATE NA

STERILIZATION METHOD NA

SAMPLING BLDG / ROOM NA

BI LOT NA

BI EXPIRATION DATE NA

DATE RECEIVED 2015-08-27

TEST INITIATED 2015-08-28

TEST COMPLETED 2015-09-11

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	# POSITIVES	# TESTED	POSITIVE CONTROL	NEGATIVE CONTROL
Sterile	0	10	NA	2 Negatives

COMMENTS NA

REVIEWED BY  DATE 11/5/15

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

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# Mycoplasma Detection Assay Report

Testing Performed by WiCell

Lot Release Test

07-16-2015

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	UWWC1-2DS3-WB20846 11340	147	152	149.5	59	64	61.5	0.41	Negative	
2	Positive (+) Control	224	220	222	18175	18184	18180	81.89	Positive	
3	Negative (-) Control	352	359	355.5	49	47	48	0.14	Negative	

