



## Thaw and Culture Details

Cell Line Name	<b>STAN061i-164-1</b>	
WiCell Lot Number	<b>DB30984</b>	
Provider	Stanford University – Laboratory of Dr. Marlene Rabinovitch	
Banked By	Stanford University – Laboratory of Dr. Marlene Rabinovitch	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.	
Culture Platform	Feeder Independent	
	Medium: E8	
	Matrix: Matrigel®	
Protocol	WiCell Feeder Independent E8 Medium Protocol	
Passage Number	p10 These cells were cultured for 10 passages prior to freeze and post reprogramming. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.	
Date Vialied	26-October-2015	
Vial Label	10/26/2015 E 164 D#### ## ip 164FSVNOC1 P10 V#####	The label on vial only includes information applicable to the entire lot. “D#### ##” and “V#####” are vial specific and therefore are not included on this CoA.
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	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
Karyotype by G-banding	WiCell	SOP-CH-003	Report karyotype	Pass



## Testing Reported by Provider

Test Description	Method	Result
Identity	SNP	iPSCs match the donor material
Mycoplasma	Lonza MycoAlert™ kit	Negative

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

- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval
21-September-2016	9/21/2016  X DEW DEW Qual by Assurance Signed by Wilson Duxin

# 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:**

11808-STR  
**Sample Name on Tube:** 11808-STR  
42.5 ng/μL, (A260/280=1.66)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Department

**Sample Date:** N/A

**Receive Date:** 09/12/16  
**Assay Date:** 09/13/16  
**File Name:** CALR STR 160915 SLE  
**Report Date:** 09/15/16

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 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 11808-STR cells submitted by WiCell QA dated and received on 09/12/16, this sample (Label on Tube: 11808-STR) defines the STR profile of the human stem cell line STAN061i-164-1 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human STAN061i-164-1 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 11808-STR sample submitted corresponds to the STAN061i-164-1 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 09/15/16

TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 09/15/16

PhD, Director / Co-Director  
UWMC 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>

TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (<http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a>).

# Sterility Report

**Biotest Laboratories, Inc.**

*Making life-saving products possible*

WiCell Research Institute, Inc.  
WiCell Quality Assurance

BIOTEST SAMPLE # 16082085

VALIDATION # NG

TEST PURPOSE NG

PRODUCT STAN061i-164-1 DB30984 11789, STAN062i-164-2 DB30992 11790, STAN052i-146-2 DB30986 11791, STAN051i-146-1 DB30981 11792, STAN060i-163-2 DB30978 11793, STAN058i-162-2 DB30972 11794, STAN059i-163-1 DB30975 11795, WIC01i-02-1c WB42674 11810, UCSD068i-19-2 DB44267 11811, UCSD010i-5-3 DB44263 11812

PRODUCT LOT NA

STERILE LOT NA

BI LOT NA

STERILIZATION LOT NA

BI EXPIRATION DATE NA

STERILIZATION DATE NA

DATE RECEIVED 2016-08-31

STERILIZATION METHOD NA

TEST INITIATED 2016-08-31

SAMPLING BLDG / ROOM NA

TEST COMPLETED 2016-09-14

REFERENCE Processed according to LAB-003: Sterility Test Procedure

Ten (10) 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	# POSITIVES	# TESTED	POSITIVE CONTROL	NEGATIVE CONTROL
No Growth	0	10	NA	2 Negatives

COMMENTS NA

REVIEWED BY

DATE 16 SEP 16

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. The uncertainty of measurement associated with the measurement result reported in this certificate is available from the organization upon request.

Biotest Laboratories • 9303 West Broadway Ave. • Brooklyn Park, MN 55445 • USA • (763) 315-1200

A subsidiary of STERIS Corporation



# Mycoplasma Detection Assay Report

Testing Performed by WiCell

Lot Release Test

August 23, 2016

FORM SOP-QU-004.01

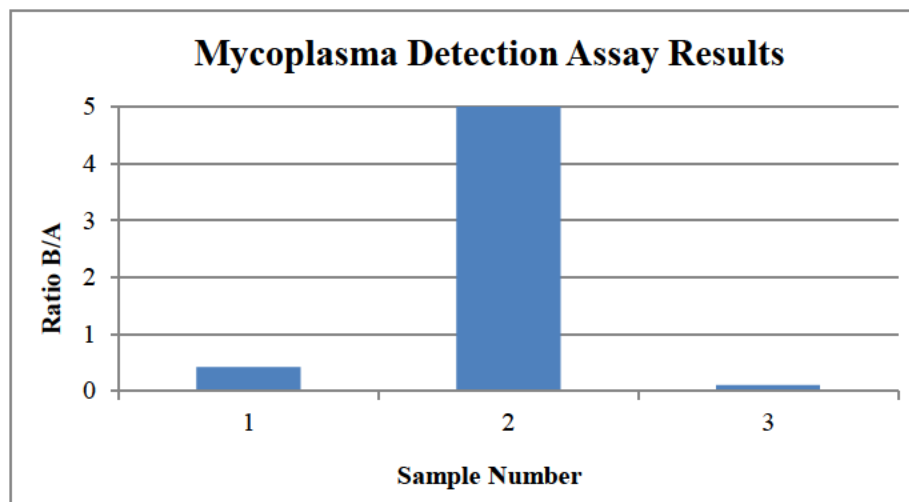
Version F Edition 01

Reported by: SM

Reviewed by: JB

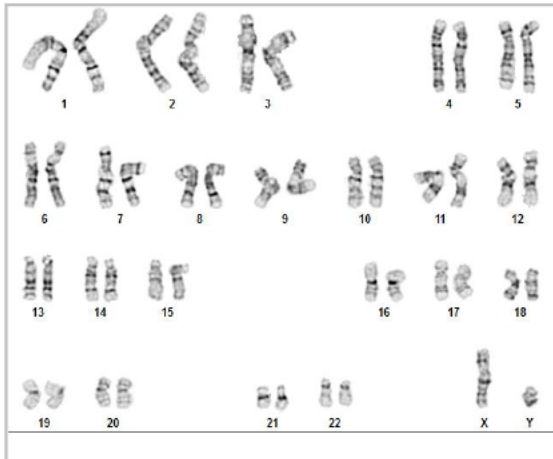
Berthold Flash n' Glo 539

#	Sample Name	Reading A		A Ave	Reading B		B Ave	Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2		RLU1	RLU2				
1	STAN061i-164-1-DB30984 11808	90	88	89	39	36	37.5	0.42	Negative	
2	Positive (+) Control	1229	1221	1225	11416	11424	11420	9.32	Positive	
3	Negative (-) Control	195	197	196	19	19	19	0.10	Negative	



**Date Reported:** Friday, September 16, 2016  
**Cell Line:** STAN061i-164-1-DB30984 11808  
**Passage#:** 13  
**Date of Sample:** 8/31/2016  
**Specimen:** iPSC  
**Results:** 46,XY

**Cell Line Gender:** Male  
**Reason for Testing:** lot release testing  
**Investigator:** [REDACTED] WiCell



**Cell:** 36  
**Slide:** 2  
**Slide Type:** Karyotype  
**Total Counted:** 20  
**Total Analyzed:** 8  
**Total Karyogrammed:** 4  
**Band Resolution:** 425 - 475

### Interpretation:

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

**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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