

# **Thaw and Culture Details**

Cell Line Name	STAN058i-162-2						
WiCell Lot Number	DB30972						
Provider	Stanford University – Laboratory of Dr. Marlene Rabinovitch						
Banked By	Stanford University – Laboratory of Dr	r. Marlene Rabinovitch					
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.						
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 Vialed	26-October-2015						
Vial Label	10/26/2015E 162D####-####ip 162FSVNOC2 P10V#########						
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	Defines profile	Pass				
Sterility	Steris	ST/07	Negative	Pass				
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass				

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The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at http://www.wicell.org/privacyandterms.



## **Testing Reported by Provider**

Test Description	Method	Result			
Identity	SNP	iPSCs match the donor material			
Mycoplasma	Lonza MycoAlert <sup>™</sup> 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<sup>®</sup> Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval
05-June-2016	4/16/2018 XIG Quality Assurance Signed by: Gay, Janna

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Date Reported: Tuesday, April 03, 2018 Cell Line Gender: Male Cell Line: STAN058i-162-2-DB30972 13554 Reason for Testing: lot release testing Passage#: 12 WiCell CDM Date of Sample: 3/16/2018 Investigator: Specimen: Human IPS Results: 46,XY D. T. S. L. S. **Cell: 24** Slide: G02 Slide Type: Karyotype Total Counted: 20 88 Total Analyzed: 8 18 Total Karyogrammed: 4 Band Resolution: 425 - 475 28 26 88 8 16 22

#### 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, FACMGA signed copy of this report is available upon request.

Date:	Sent By:	Sent To:	QC Review By:
<b>D</b> utor	••••••		

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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#### HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) http://www.pathology.wisc.edu/research/trip

Sample Report: 13554-STR Sample Name on Tube: 13554-STR 50.4 ng/µL, (A260/280=1.83) Sample Type: Cells Cell Count: ~2 million cells

WiCell Research Institute Quality Department

Analysis

Sample Date: N/A **Receive Date:** 03/19/18 Assav Date: 03/21/18 File Name: STR 180322 wmr

**Report Date: 03/27/18** 

STR Locus STR Genotype Repeat # STR Genotype 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, FGA Identifying 44.2,45.2,46.2 information has 6-13 TPOX been redacted to 7-18 protect donor D8S1179 confidentiality. If 10-22 vWA more information X,Y Amelogenin is required, 2.2, 3.2, 5, 7-17 Penta D please, contact 6-15 CSF1PO 5.8-15 D16S539 6-14 D7S820 7-15 D13S317 7-16 D5S818 Penta E 5-24 8-10, 10.2, 11-13, 13.2, 14-27 D18S51 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 D21S11 **TH01** 4-9,9.3,10-11,13.3 12-20 D3S1358

Results: Based on the 13554-STR cells submitted by WiCell QA dated and received on 03/19/18, this sample (Label on Tube: 13554-STR) defines the STR profile of the human stem cell line STAN058i-162-2 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human STAN058i-162-2 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 13554-STR sample submitted corresponds to the STAN058i-162-2 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 03/27/18	X WMR	Digitally Signed on	03/27/18
, BA TRIP Laboratory, Molecular	UWHC Molecular	PhD, Director / Co-Dire Diagnostics Laboratory / U	

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).



**Short Tandem Repeat** 

**Requestor:** 

Making life-saving products possible

WiCell Research Institute,	Inc.	BIOTEST SAMPLE #	16082085	
WiCell Quality Assurance 504 South Rosa Road, Roc	om 101	VALIDATION #	NG	
Madison, WI 53719		TEST PURPOSE	NG	
PRODUCT	STAN061i-164-1 DB30984 11789, ST, DB30986 11791, STAN051i-146-1 DE STAN058i-162-2 DB30972 11794, ST, 11810, UCSD068i-19-2 DB44267 11	330981 11792, STAN060i AN059i-163-1 DB30975	i-163-2 DB30978 11793, 11795, WIC01i-02-1c WB42674	
PRODUCT LOT	NA			
STERILE LOT	NA	BI LOT	NA	
STERILIZATION LOT	NA	<b>BI EXPIRATION DATE</b>	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 be then cultured at 20-25 C and 30-35 of 14 days.			
	USP BI Manufacturers Specifications			
RESULTS No Growth	# POSITIVES # TESTED 0 10	POSITIVE CONTR NA	OL NEGATIVE CONTROL 2 Negatives	
COMMENTS NA	Ac	DATE	165EP16	

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

**≋**STERIS

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### Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing March 9th, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: SM Reviewed by: JB Berthold Flash n' Glo 539

		Reading A A		Reading B		В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	<b>Comments/Suggestions</b>
1	STAN058i-162-2-DB30972 13554	126	137	131.5	59	55	57	0.43	Negative	
2	Positive (+) Control	169	167	168	7561	7602	7582	45.13	Positive	
3	Negative (-) Control	286	286	286	38	40	39	0.14	Negative	

