

Thaw and Culture Details

Cell Line Name	CREM018i-SS24-1							
WiCell Lot Number	WB66883							
Provider	Boston University – Laboratory of Dr. Martin Steinberg							
Banked By	WiCell							
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.							
Culture Platform	Feeder Independent Feeder Dependent							
	Medium: mTeSR™1							
	Matrix: Matrigel®							
Protocol	WiCell Feeder Independent mTeSR™1 Protocol							
Passage Number	p19 These cells were cultured for 18 passages prior to freeze and post reprogramming or colony picking. WiCell adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 19.							
Date Vialed	04-August-2018							
Vial Label	CREM018i-SS24-1 p19 WB66883							
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

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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	≥ 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	stem by Defines STR profile of deposited						
Sterility	Steris	ST/07	Negative	Pass					
Mycoplasma	Mycoplasma WiCell		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 dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

- Digital Genome Sequencing
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)



Approval Date	Quality Assurance Approval			
25-October-2018	5,727,0020 X HEB HEB Cuality Assurance Signed by: Bruner, Haley			



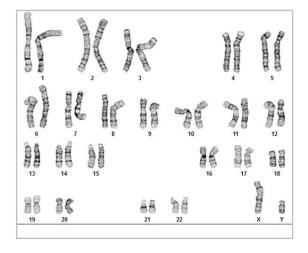
Chromosome Analysis Report: 072849

Date Reported: Thursday, August 23, 2018
Cell Line: CREM018i-SS24-1-WB66883-13941

Passage#: 19

Date of Sample: 8/16/2018 Specimen: Human IPS

Results: 46,XY



Cell Line Sex: Male

Reason for Testing: Lot release testing

Investigator: WiCell

Cell: 40 Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 400 - 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

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 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 Analysis

HISTOLOGY - IHC - MOLECULAR - IMAGING

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:

13941-STR

Sample Name on Tube: 13941-STR

71.5 ng/ μ L, (A260/280=1.73)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department **Receive Date:** 08/27/18 **Assay Date:** 08/29/18

Sample Date: N/A

File Name: STR 180830 wmr

Report Date: 09/05/18

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,					
CSF1PO	6-15	please, contact WiCell's Technical					
D16S539	5, 8-15						
D7S820							
D13S317	138317 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 13941-STR cells submitted by WiCell QA dated and received on 08/27/18, this sample (Label on Tube: 13941-STR) defines the STR profile of the human stem cell line CREM018i-SS24-1 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human CREM018i-SS24-1 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 13941-STR sample submitted corresponds to the CREM018i-SS24-1 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 09/06/18

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Native Product Sterility Report



SAMPLE #:

18081822

DATE RECEIVED:

23-Aug-18

TEST INITIATED:

29-Aug-18

TEST COMPLETED:

12-Sep-18

SAMPLE NAME / DESCRIPTION:

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

UCSD027i-9-2 WB57332 13953

WA07 CY66889 13954

LUEL7159i-16 WB66875 13955 UCSD028i-9-3 WB66873 13956 CREM003i-BU3C2 WB66874 13957 CREM018i-SS24-1 WB66883 13958 LUEL5748i-2 WB66878 13959 WC036i-0498-1 WB66882 13960 WC036i-0498-1 WB66884 13961 CREM024i-SS36-1 WB66886 13962 LUEL8360i-2 WB66888 13963 LUEL7991i-1 WB66891 13964 LUEL5748i-3 WB66894 13965 LUEL7153i-1 WB66895 13966 LUEL7673i-2 WB66898 13967

CREM029i-SS44-1 DB48061 13969 CREM030i-SS45-1 DB48064 13970

LUEL7149i-1 WB66899 13968

JHU012i-2 DB36196 13971 JHU017i DB36203 13972

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

TEST RESULTS:

	# Positives	
# Tested	(Growth)	- Control
20	0	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

METHOD VALIDATION / PD #:

000053

STERIS Laboratories, Inc. 9303 West Broadway Ave Brooklyn Park, MN 55445

Native Product Sterility Report



TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NA

REVIEWED BY

DATE 1754718

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.



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing August 16, 2018

FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB BD Monolight 180

		Reading A		A Reading B		В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	CREM018i-SS24-1-WB66883 13941	298	257	277.5	98	98	98	0.35	Negative	
2	Positive (+) Control	486	434	460	19592	19817	19705	42.84	Positive	
3	Negative (-) Control	896	897	896.5	94	87	90.5	0.10	Negative	

