

#### **Thaw and Culture Details**

Cell Line Name	CREM010i-SS9-1								
WiCell Lot Number	DB47994								
Provider	Boston University – Laboratory of Dr. Martin Steinberg								
Banked By	Boston University - Laboratory of Dr. Gustavo Mostoslavsky								
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate.								
Culture Platform	Feeder Dependent								
	Medium: hESC Medium (KOSR)								
	Matrix: MEF								
Protocol	WiCell Feeder Dependent Protocol								
Passage Number	p6 These cells were cultured for 6 passages after colony picking prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.								
Date Vialed	17-October-2015								
Vial Label	SS9-1p6 hiPSC/KSR 10/17/15 SMP								
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 STR profile of deposited cell line	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**

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		
05-December-2016	S,/20,/2020  X AA  AA  Quality Assurance Signed by: Arrist, Andy		



# 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:** 12488-STR

Sample Name on Tube: 12488-STR

 $51.4 \text{ ng/}\mu\text{L}$ , (A260/280=1.71)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute
Ouality Department

Sample Date: N/A Receive Date: 05/08/17

**Assav Date:** 05/10/17

File Name: STR 170511 wmr

**Report Date:** 05/12/17

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								
D8S1179	7-18	protect donor						
vWA	10-22	confidentiality. If						
Amelogenin	X,Y	more information is required,						
Penta_D								
CSF1PO	68539 6-15 6S539 5, 8-15							
D16S539								
D7S820	6-14	Support.						
D13S317	7-15							
D5S818	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							
Penta_E								
D18S51								
D21S11								
TH01								
D3S1358	S1358 12-20							

<u>Results:</u> Based on the 12488-STR cells submitted by WiCell QA dated and received on 05/08/17, this sample (Label on Tube: 12488-STR) defines the STR profile of the human stem cell line CREM010i-SS9-1 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human CREM010i-SS9-1 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 12488-STR sample submitted corresponds to the CREM010i-SS9-1 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  $\sim 2-5\%$ .

X RMB Digitally Signed on 05/15/17

X WMR Digitally Signed on 05/15/17

PhD, Director / Co-Director

TRIP Laboratory, Molecular

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

### Native Product Sterility Report



WiCeli

504 S Rosa Rd, Rm 101 Madison, WI 53719 SAMPLE #: 17041445

DATE RECEIVED: 19-Apr-17

TEST INITIATED: 21-Apr-17
TEST COMPLETED: 05-May-17

SAMPLE NAME / DESCRIPTION: JFMD3 WB62418 12473

JFRBi2 WB62419 12474 JFMD1 WB62435 12475

WISCi004-A-1 WB62846 12476 WISCi004-A-2 WB62848 12477 WISCi004-A-3 WB62903 12478 WISCi004-A-4 WB62825 12479 UCSD017i-3-5 WB54903 12480 UCSD019i-3-7 WB62523 12481 UCSD069-19-3 WB55070 12482 CREM010i-SS9-1 DB47994 12463 CREM011i-SS12-1 DB51676 12464 CREM012i-SS13-1 DB48001 12465 CREM013i-SS14-1 DB48004 12466 CREM014i-SS15-1 DB48007 12467 CREM015i-SS16-1 DB48010 12468 CREM016i-SS18-1 DB48013 12469 CREM017i-SS19-1 DB48016 12470 CREM023i-SS35-1 DB48034 12471 UCSD015i-3-3 WB60296 12472

UNIQUE IDENTIFIER: NA

PRODUCT REGISTRATION: Human iPS cells

**TEST RESULTS:** 

# Tested	# Positives (Growth)	- Control
20	0	3 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

LAB-003 rev 29 Form 5 Effective: 2017-04-20 Page 1 of 2

## Native Product Sterility Report



TEST METHODOLOGY:

USP - Direct Transfer

REVIEWED BY Sas	DATE 08MAYI7
-----------------	--------------

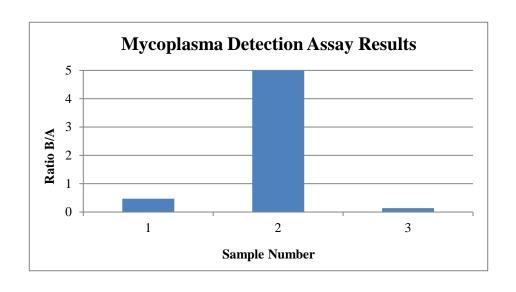
Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. This test report shall not be reproduced, except in full, without prior written approval. Liability is limited to the costs of the tests.



## Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing April 21, 2017 FORM SOP-QU-004.01 Version F Edition 02 Reported by: KR Reviewed by: JB BD Monolight 180

		Reading A		A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	CREM010i-SS9-1-DB47994 12488	370	377	373.5	176	175	175.5	0.47	Negative	
2	Positive (+) Control	485	495	490	31295	31440	31368	64.02	Positive	
3	Negative (-) Control	700	742	721	101	99	100	0.14	Negative	





#### Chromosome Analysis Report: 064711

Date Reported: Monday, May 15, 2017

Cell Line: CREM010i-SS9-1-DB47994 12488

Passage#: 8

Date of Sample: 5/3/2017

Specimen: iPSC Results: 46,XX

1 2 3 4 5

6 7 8 9 10 11 12

13 14 15 16 17 18

Cell Line Gender: Female

Reason for Testing: Lot release testing

Investigator: WiCell CDM

Cell: 5 Slide: 1

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 450 - 550

#### Interpretation:

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

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

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.