



## Thaw and Culture Details

|                                  |  |
|----------------------------------|--|
| Cell Line Name                   | <b>UCSD081i-1-14</b>   |
| WiCell Lot Number                | <b>WB61903</b>   |
| Provider                         | University of California, San Diego – Dr. Kelly Frazer   |
| Banked By                        | WiCell   |
| Thaw and Culture Recommendations | WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.   |
| Culture Platform                 | Feeder Independent   |
|                                  | Medium: mTeSR™1  |
|                                  | Matrix: Matrigel®  |
| Protocol                         | WiCell Feeder Independent mTeSR™1 Protocol   |
| Passage Number                   | p19<br>These cells were cultured for 18 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.   |
| Date Vialied                     | 30-March-2017  |
| Vial Label                       | UCSD081i-1-14<br>p19<br>WB61903  |
| 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.<br>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  | Fail   |
|                                | <b>Results:</b> 46,XX,t(4;10)(q31.3;q22.1)[20]<br><b>Interpretation:</b> This is an abnormal karyotype. There is an apparently balanced translocation between the long arms of chromosomes 4 and 10 in twenty of twenty cells examined. No other clonal abnormalities were found. Comparison of this karyotype with the karyotype of the source specimen may help to determine the origin and significance of this abnormality. |                                   |   |        |
| Post-Thaw Viable Cell Recovery | WiCell  | SOP-CH-305                        | ≥ 15 Undifferentiated Colonies,<br>≤ 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                      | Steris  | ST/07                             | Negative  | Pass   |
| Mycoplasma                     | WiCell  | SOP-QU-004                        | 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.

- Illumina® HumanCoreExome BeadChip Array
- RNA-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

| Approval Date | Quality Assurance Approval   |
|---------------|--|
| 26-April-2017 | <p style="text-align: right;">10/29/2017</p> <p>X JKG<br/>JKG<br/>Quality Assurance<br/>Signed by: Gay Jenna</p> |

**Date Reported:** Tuesday, September 26, 2017

**Cell Line Gender:** Female

**Cell Line:** UCSD081i-1-14-WB61903 12864

**Reason for Testing:** lot release testing

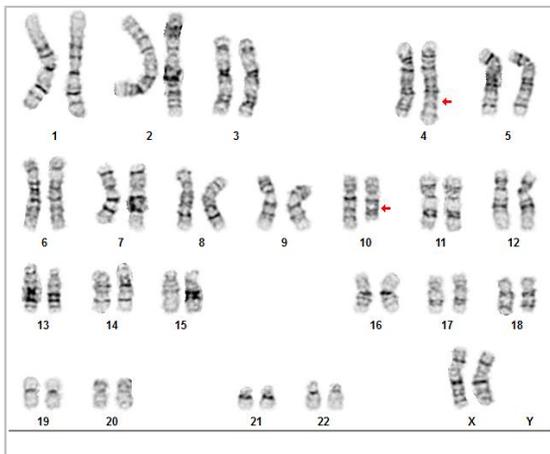
**Passage#:** 19

**Date of Sample:** 9/14/2017

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

**Specimen:** Human IPS

**Results:** 46,XX,t(4;10)(q31.3;q22.1)[20]



**Cell:** 48

**Slide:** G02

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyogrammed:** 4

**Band Resolution:** 425 - 475

**Interpretation:**

**This is an abnormal karyotype. There is an apparently balanced translocation between the long arms of chromosomes 4 and 10 in twenty of twenty cells examined. No other clonal abnormalities were found.**

**Comparison of this karyotype with the karyotype of the source specimen may help to determine the origin and significance of this abnormality.**

**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.*

*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](http://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



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:**

12864-STR  
**Sample Name on Tube:** 12864-STR  
70.4 ng/μL, (A260/280=1.85)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Department

**Sample Date:** N/A

**Receive Date:** 09/18/17  
**Assay Date:** 09/19/17  
**File Name:** 170920 STR WMR  
**Report Date:** 09/21/17

| 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 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 12864-STR cells submitted by WiCell QA dated and received on 09/18/17, this sample (Label on Tube: 12864-STR) defines the STR profile of the human stem cell line UCSD081i-1-14 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human UCSD081i-1-14 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 12864-STR sample submitted corresponds to the UCSD081i-1-14 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 09/21/17

**X** *WMR*  
Digitally Signed on 09/21/17

TRIP Laboratory, Molecular

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>  
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>).

# Native Product Sterility Report



**CORRECTED  
REPORT**

WiCell  
504 S Rosa Rd, Rm 101  
Madison, WI 53719

SAMPLE #: 17090875  
DATE RECEIVED: 14-Sep-17  
TEST INITIATED: 18-Sep-17  
TEST COMPLETED: 02-Oct-17

SAMPLE NAME / DESCRIPTION: MCW003i-40001883-WB66553\_12835, MCW047i-U2234-WB66549\_12836, MCW071i-U2177-WB66552\_12837, MCW086i-40000176-WB66545\_12838, MCW090i-40000374-WB66557\_12839, MCW091i-U2202-WB66554\_12840, MCW097i-400001654-WB66548\_12841, MCW112i-40000893-WB66551\_12842, MCW116i-40001890-WB66550\_12843, MCW073i-40000527-WB66570\_12844, MCW060i-U2183-WB66559\_12845, JFHZ4-WB66573\_12846, JFHZ5-WB66587\_12847, JFHZ6-WB66583\_12848, JFMD6-WB66581\_12849, JFNY2-WB66584\_12850, JFRBi5-WB66569\_12851, JFWT2-WB66586\_12852, JFWT4-WB66582\_12853, UCSD239i-APP2-1-WB66585\_12854, MCW100i-U2341-WB66575\_12881, MCW114i-U2144-WB66566\_12882, iPS(IMR90)-2-WB66588\_12883, UCSD035i-4-4-WB62259\_12884, UCSD064i-20-2-WB63303\_12885, UCSD143i-87-1-WB57685\_12886, UCSD161i-93-1-WB54536\_12887, UCSD199i-107-1-WB59910\_12888, UCSD209i-24-1-WB57661\_12889, UCSD081i-1-14-WB61903\_12890

UNIQUE IDENTIFIER: NA  
PRODUCT REGISTRATION: Other: Human iPS Cells

TEST RESULTS:

| # Tested | # Positives (Growth) | - Control   |
|----------|----------------------|-------------|
| 30       | 0                    | 2 Negatives |

TEST SUMMARY:

| # Samples | Media Type | Volume (mL) | Incubation Temperature (° C) | Incubation Duration (Days) |
|-----------|------------|-------------|------------------------------|----------------------------|
| 30        | TSB        | 40          | 20-25                        | 14                         |
| 30        | FTG        | 40          | 30-35                        | 14                         |

REFERENCE: Processed according to LAB-003: Sterility Test Procedure  
METHOD VALIDATION / PD #: 000053  
TEST METHODOLOGY: USP - Direct Transfer

# Native Product Sterility Report

**CORRECTED  
REPORT**



# STERIS

**COMMENTS:**

Sample # 17090875

Report revised due to Customer request to update Sample Name / Description.

REVIEWED BY \_\_\_\_\_

DATE \_\_\_\_\_

09/04/17

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  
Lot Release Testing  
September 14, 2017

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

| # | Sample Name                 | Reading A |      |       | Reading B |       |       | Ratio B/A | Result   | Comments/Suggestions |
|---|-----------------------------|-----------|------|-------|-----------|-------|-------|-----------|----------|----------------------|
|   |                             | RLU1      | RLU2 | Ave   | RLU1      | RLU2  | Ave   |           |          |                      |
| 1 | UCSD081i-1-14-WB61903 12864 | 242       | 258  | 250   | 91        | 103   | 97    | 0.39      | Negative |                      |
| 2 | Positive (+) Control        | 407       | 430  | 418.5 | 37240     | 37764 | 37502 | 89.61     | Positive |                      |
| 3 | Negative (-) Control        | 713       | 753  | 733   | 81        | 84    | 82.5  | 0.11      | Negative |                      |

