



Thaw and Culture Details

| | |
|----------------------------------|---|
| Cell Line Name | JHU080i |
| WiCell Lot Number | DB36222 |
| Provider | Johns Hopkins University – Laboratory of Dr. Lewis Becker |
| Banked By | Johns Hopkins University – Laboratory of Dr. Lewis Becker |
| 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: Vitronectin |
| Protocol | WiCell Feeder Independent E8 Medium Protocol |
| Passage Number | p7 These cells were cultured for 7 passages post reprogramming prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw. |
| Date Vialied | 16-February-2016 |
| Vial Label | P80 P7 1.2x10 ⁶ 2/16/16 |
| Biosafety and Use Information | This cell line is of human origin. 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 |
| | Results: 47,XX,+X[5]/46,XX[15] Interpretation: This is an abnormal karyotype. A gain of chromosome X is present in five of twenty cells examined. Gain of chromosome X is recurrently acquired in pluripotent stem cell cultures. No other clonal abnormalities were detected at the stated band level of resolution. | | | |
| 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-CH-044 | 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.

- Embryoid bodies
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})



| Approval Date | Quality Assurance Approval |
|---------------|--|
| 08-July-2016 | <p style="text-align: right;">8/15/2019</p> <p>X JKG</p> <hr/> <p>WiCell Quality Assurance Signed by: Gay, Jenna</p> |



Chromosome Analysis Report: 077639

Date Reported: Monday, July 29, 2019

Cell Line: JHU080i-DB36222 14894

Passage#: 8

Date of Sample: 7/19/2019

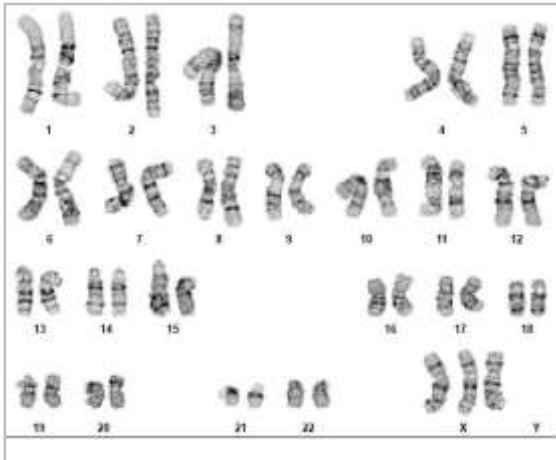
Specimen: Human iPSC

Results: 47,XX,+X[5]/46,XX[15]

Cell Line Sex: Female

Reason for Testing: lot release testing

Investigator: [REDACTED], WiCell



Cell: 44

Slide: G03

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 475 - 575

Interpretation:

This is an abnormal karyotype. A gain of chromosome X is present in five of twenty cells examined. Gain of chromosome X is recurrently acquired in pluripotent stem cell cultures. No other clonal abnormalities were detected at the stated band level of resolution.

Completed by: [REDACTED], CG(ASCP)

Reviewed and Interpreted by: [REDACTED] PhD, FACMG

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.



HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine
TRIP Laboratory (Molecular)
<https://research.pathology.wisc.edu/trip-home/>
(608) 265-9168

Short Tandem Repeat Analysis



characterization@wicell.org
(608) 316-4145

Sample Report:

14924-STR

Sample Name on Tube: 14924-STR

66.7 ng/μL, (A260/280=2.14)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute

Quality Assurance Department

Receive Date: 07/29/19

Report Sent: 08/04/19

Assay Date: 07/30/19

File Name: STR 190731 wmr

Report Date: 08/01/19

| 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 WiCell's Technical Support . |
| 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 14924-STR cells submitted by WiCell QA dated and received on 07/29/19, this sample (Label on Tube: 14924-STR) defines the STR profile of the human cell line JHU080i comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human JHU080i 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 14924-STR sample submitted corresponds to the JHU080i cell line and was not contaminated with any other human 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 cell lines is ~2-5%.

X *RMB*

Digitally Signed on 08/04/19

BA
TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 08/04/19

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: <https://research.pathology.wisc.edu/acknowledging-trip/>
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Native Product Sterility Report



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

SAMPLE #: 19071395
DATE RECEIVED: 18-Jul-19
TEST INITIATED: 24-Jul-19
TEST COMPLETED: 07-Aug-19

SAMPLE NAME / DESCRIPTION: STAN037i-118-1 DB30906 14904
JHU058i DB41092 14905
JHU172i DB36377 14906
JHU170i DB36371 14907
JHU225i DB41417 14908
JHU143i DB41347 14909
JHU104i DB41282 14910
JHU080i DB36222 14911
JHU097i DB41267 14912
STAN343i-998C1 DB35654 14913

UNIQUE IDENTIFIER: NA

TEST RESULTS:

| # Tested | # Positives (Growth) | - Control |
|----------|----------------------|-------------|
| 10 | 0 | 2 Negatives |

TEST SUMMARY:

| # Samples | Media Type | Volume (mL) | Incubation Temperature (° C) | Incubation Duration (Days) |
|-----------|------------|-------------|------------------------------|----------------------------|
| 10 | TSB | 40 | 20-25 | 14 |
| 10 | FTG | 40 | 30-35 | 14 |

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY 

DATE 07 Aug 19

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. Results applied to samples as received.



Mycoplasma Assay Report

PCR-based assay performed by WiCell

Lot Release Testing

31Jul19

FORM SOP-CH-044.03

Version B Edition 02

| # | Sample Name | Result | Comments/Suggestions |
|---|-----------------------|----------|--|
| 1 | JHU080i-DB36222 14924 | Negative | Band was not seen at 270bp, indicating the absence of mycoplasma |
| 2 | Positive (+) Control | Positive | |
| 3 | Negative (-) Control | Negative | |

Reported by: Alex Paguirigan, Assistant Cell Culture Specialist

Reviewed by: Brenna Anderson, Research Specialist - Cytogenetics

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A gel image is available upon request.