



## Thaw and Culture Details

Cell Line Name	<b>MCW041i-U2104</b>
WiCell Lot Number	<b>WB66494</b>
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR™ 1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR1 Protocol
Passage Number	p14 These cells were cultured for 13 passages prior to freeze and post 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 14.
Date Vialied	05-August-2017
Vial Label	MCW041i-U2104 p14 WB66494
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	≥ 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	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.

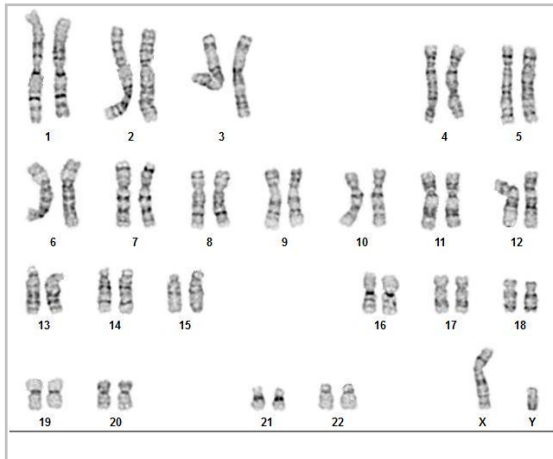
- Tra1-60 marker expression
- mRNA expression by qPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)



Approval Date	Quality Assurance Approval
14-May-2018	<p style="text-align: right;">2/28/2019</p> <p>X JKG</p> <hr/> <p><small>WiCell Quality Assurance Signed by: Gay, Jenna</small></p>

**Date Reported:** Tuesday, January 22, 2019  
**Cell Line:** MCW041i-U2104-WB66494 13788  
**Passage#:** 14  
**Date of Sample:** 1/15/2019  
**Specimen:** Human IPS  
**Results:** 46,XY

**Cell Line Sex:** Male  
**Reason for Testing:** Lot Release Testing  
**Investigator:** [REDACTED], WiCell



**Cell:** 36  
**Slide:** G01  
**Slide Type:** Karyotype

**Total Counted:** 20  
**Total Analyzed:** 8  
**Total Karyogrammed:** 4  
**Band Resolution:** 400 - 500

### Interpretation:

**This is a normal karyotype; no 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](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.*

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(608) 265-9168

[characterization@wicell.org](mailto:characterization@wicell.org)  
(608) 316-4145

**Sample Report:**  
13788-STR  
**Sample Name on Tube:** 13788-STR  
113.3 ng/μL, (A260/280=1.93)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**  
WiCell Research Institute  
Quality Assurance Department

**Receive Date:** 02/11/19  
**Report Sent:** 02/15/19  
**Assay Date:** 02/12/19  
**File Name:** STR 190212 wmr  
**Report Date:** 02/15/19

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 <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 13788-STR cells submitted by WiCell QA dated and received on 02/11/19, this sample (Label on Tube: 13788-STR) defines the STR profile of the human stem cell line MCW041i-U2104 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human MCW041i-U2104 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 13788-STR sample submitted corresponds to the MCW041i-U2104 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 02/15/19

X *WMR*

Digitally Signed on 02/15/19

██████████, BA  
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>  
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# Native Product Sterility Report



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

SAMPLE #: 18030537  
DATE RECEIVED: 08-Mar-18  
TEST INITIATED: 13-Mar-18  
TEST COMPLETED: 27-Mar-18

SAMPLE NAME / DESCRIPTION: STAN129i-212C2 DB35772 13516  
STAN130i-212C4 DB35777 13517  
MCW002i-40001265 WB66495 13518  
MCW004i-40002545 WB66488 13519  
MCW006i-40000930 WB66499 13520  
MCW008i-40000992 WB66496 13521  
MCW010i-40000756 WB66487 13522  
MCW011i-40000664 WB66486 13523  
MCW015i-A2196 WB66497 13524  
MCW016i-A2159 WB66510 13525  
MCW021i-50001743 WB66448 13526  
MCW025i-A2566 WB66504 13527  
MCW034i-A2780 WB66502 13528  
MCW036i-A3170 WB66501 13529  
MCW037i-50000777 WB66459 13530  
MCW041i-U2104 WB66494 13531  
MCW048i-40001845 WB66460 13532  
MCW050i-40000626 WB66467 13533  
MCW067i-40001036 WB66478 13534  
MCW068i-40002385 WB66452 13535

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

## TEST RESULTS:

# Tested	# Positives (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

# Native Product Sterility Report



TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: Sample #18030537  
Report as per packing slip.

REVIEWED BY *Olesand*

DATE 28MAR18

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

January 17, 2019

FORM SOP-QU-004.01

Version G Edition 02

Reported by: AP

Reviewed by: JB

Berthold Flash n' Glow 539

#	Sample Name	Reading A			Reading B			Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2	Ave	RLU1	RLU2	Ave			
1	MCW041i-U2104-WB66494 13788	110	103	106.5	40	39	39.5	0.37	Negative	
2	Positive (+) Control	73	82	77.5	615	624	619.5	7.99	Positive	
3	Negative (-) Control	267	265	266	30	27	28.5	0.11	Negative	

