

Thaw and Culture Details

Cell Line Name	MCW007i-U2456	
WiCell Lot Number	WB67198	
Parent Material	MCW007i-U2456-DB66312	
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel	
Banked By	WiCell	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.	
Culture Platform	Feeder Independent	
	Medium: mTeSR™1	
	Matrix: Matrigel®	
Protocol	WiCell Feeder Independent mTeSR™1 Protocol	
Passage Number	p15 These cells were cultured for 14 passages prior to freeze and post colony selection. WiCell adds +1 to the passage number at freeze to best represent the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 15.	
Date Vialed	23-May-2019	
Vial Label	MCW007i-U2456 p15 WB67198	
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 prior to passage, ≤ 30% Differentiation prior to passage, and 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	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.

- Tra1-60 marker expression
- mRNA expression by qPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)



Approval Date	Quality Assurance Approval
25-February-2020	2/25/2020 X JKG JKG Quality Assurance Signed by Gay, Jenna



Date:

Chromosome Analysis Report: 080214

Date Reported: Wednesday, February 12, Cell Line Sex: Male Cell Line: MCW007i-U2456-WB67198 Reason for Testing: LOT_RELEASE Passage#: 16 Date of Sample: 2/4/2020 Investigator: Specimen: Human IPSC Results: 46,XY **Cell: 13** Slide: G01 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 475 - 550 8 Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution. ■ CG(ASCP) Completed by: , PhD, FACMG Reviewed and Interpreted 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".

QC Review By: __

Sent By:____ Sent To:_

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

Your Lab Partner

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

characterization@wicell.org (608) 316-4145

Sample Report:

Requestor:

WiCell Research Institute

MCW007i-U2456-WB67198 p.16 D01 (80214)

Sample Name on Tube: MCW007i-U2456-WB67198 p.16 D01 (80214)

Characterization Department

 $87.3 \text{ ng/}\mu\text{L}, (A260/280=1.75)$

File Name: STR 200212 wmr

Sample Type: DNA Cell Count: N/A

Report Date: 02/17/20

Receive Date: 02/11/20

Report Sent: 02/14/20

Assav Date: 02/11/20

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, please, contact
CSF1PO	6-15	WiCell's Technical
D16S539	5, 8-15	Support.
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 MCW007i-U2456-WB67198 p.16 D01 (80214) DNA submitted by WiCell Characterization Department dated and received on 02/10/20, this sample (Label on Tube: MCW007i-U2456-WB67198 p.16 D01 (80214)) defines the STR profile of the human cell line MCW007i-U2456 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW007i-U2456 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 MCW007i-U2456-WB67198 p.16 D01 (80214) sample submitted corresponds to the MCW007i-U2456 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 cell lines is ~2-5%.

 \mathbf{X} RMB \mathbf{X} WMR Digitally Signed on 02/17/20 Digitally Signed on 02/17/20 , PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



SAMPLE #:

19060913

DATE RECEIVED:

12-Jun-19

TEST INITIATED:

14-Jun-19

TEST COMPLETED:

28-Jun-19

504 S Rosa Road, Rm 101

WiCell

Madison, WI 53719

SAMPLE NAME / DESCRIPTION:

STAN204i-448C1 WB67189 14791

MCW013i-A2767 WB67191 14792

JHU242i DB37058 14793

MCW085i-40002118 WB67193 14794 MCW081i-U7128 WB67194 14795 STAN043i-124-1 WB67196 14796 STAN038i-118-2 WB67197 14797 MCW007i-U2456 WB67198 MCW096i-40000169 WB67199 14799 MCW074i-40002460 WB67203 14800 MCW110i-U2170 WB67204 14801 STAN044i-124-2 WB67206 14802 MCW105i-U2130 WB67207 14803 MCW103i-40000237 WB67208 14804 MCW101i-40001005 WB67209 14805 hIPSC-Di21-c2-4-4 WB67210 14806

WA07 WB67212 14807 WA07 WB67213 14808

MCW021i-50001743 WB67214 14809 hJPSC-Di21-c2-4-3 WB67215 14810

UNIQUE IDENTIFIER:

NA

TEST RESULTS:

	# Positives	
# Tested	l (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

PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

STERIS Laboratories 9303 West Broadway Ave Brooklyn Park, MN 55445 LAB-003 rev 32 Form 5 Effective: Nov 29, 2018 Page 1 of 2

Native Product Sterility Report



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REVIEWED BY	na-	DA1	TE 28 JUN19

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.

WiCell

Mycoplasma Assay Report

PCR-based assay performed by WiCell
WiCell
29Jan20

Sample Name	Result	Comments/Suggestions
MCW026i-50000685-WB67283 15256	Negative	
(79973)		Band was not seen at 270bp, indicating the absence of mycoplasma.
UCSD128i-7-5-WB67390 15263 (79974)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW055i-U2054-DB66384 15246	Negative	
(79976)	rvegutive	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW030i-A2688-WB67307 15257	Nagativa	
(79977)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW007i-U2456-WB67198 15252	N	
(79978)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC064i-247-1-2-22-WB67389 15259	Marie	
(79979)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW013i-A2767-WB67191 15253	Marie	
(79980)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW035i-A3267-WB67388 15251	Marie	
(79981)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW020i-A2023-WB67311 15258	NT di	
(79982)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW054i-U2073-DB66383 15247	Marie	
(79989)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: Molly Miles, Cell Culture Specialist Reviewed by: Katie Remondini, Cell Culture Specialist

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A gel image is available upon request.