



## Product Information and Testing

### Product Information

Product Name	MIRJT6i-mND1-4
Lot Number	WB0163
Depositor	Morgridge Institute for Research – Laboratory of Dr. James Thomson
Banked by	WiCell
Thaw Recommendation	Thaw 1 vial into 1 well of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.
Culture Platform	Feeder Independent
	Medium: E8 – WiCell recommends to passage using ROCK Inhibitor for best results.
	Matrix: Matrigel
Protocol	WiCell Feeder Independent E8 Medium Protocol modified to include ROCK Inhibitor at passage
Passage Number	p32  These cells were cultured for 31 passages prior to freeze, 5 of them in E8/Matrigel. WiCell adds +1 to the passage number at freeze so that the number on the vial best represents the overall passage number of the cells at thaw.
Date Vialled	21-May-2012
Vial Label	WB0163 MIRJT6i-mND1-4 p32 21MAY12 DF
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	≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation	Pass
Identity by STR	UW Molecular Diagnostics Laboratory	PowerPlex 16 HS System by Promega	Consistent with known profile	Pass
Sterility	Apptec	30744	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	Pass

Date of Lot Release	Quality Assurance Approval
28-January-2013	<div>1/25/2019</div> <div>X RK</div> <div>RK Quality Assurance Signed by: Kremers, Erik</div>

## Short Tandem Repeat Analysis\*

Sample Report: 10690-STR

Label on Tube: 10690-STR

Sample Date: 01/16/13

Requestor: WiCell Research Institute

Lab Received 01/16/13

Test Date: 01/16/13

File Name: 130116 SLE

Report Date: 01/22/13

Sample Name: (label on tube) 10690-STR

**Description:** WI Cell Research Institute provided  
genomic DNA  
254.5 ug/mL 260/280=1.79

Locus	Repeat #	STR Genotype
D16S539	5, 8-15	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .
D7S820	6-14	
D13S317	7-15	
D5S818	7-15	
CSF1PO	6-15	
TPOX	6-13	
Amelogenin	NA	
TH01	5-11	
vWA	11, 13-21	

**Comments:** Based on the 10690-STR DNA submitted by WI Cell dated and received on 01/16/13, this sample (Label on Tube: 10690-STR) exactly matches the STR profile of the human stem cell line MIRJT6i-mND1-4 comprising 15 allelic polymorphisms across the 8 STR loci analyzed. No STR polymorphisms other than those corresponding to the human stem cell line MIRJT6i-mND1-4 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 suggest that the 10690-STR DNA sample submitted corresponds to the MIRJT6i-mND1-4 stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells. Sensitivity limits for detection of STR polymorphisms unique to either this or other human stem cell lines is ~5%.

Molecular Diagnostics Laboratory

Molecular Diagnostics Laboratory

\* Testing to assess engraftment following bone marrow transplantation 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.

Test Facility:

This report is confidential. No part may be used for advertising or public announcement without written permission. Results apply only to the sample(s) tested.

Report Number  
**907527**  
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WiCell Research Institute  
505 S. Rosa Road  
Suite 120  
Madison, WI 53719

August 30, 2012  
P.O. #: [REDACTED]

Attn: Jessica Martin

## STERILITY TEST REPORT

**Sample Information:**

1: DF19-9-7T-FTDL-01 10573  
2: WA09-WB0156 10574  
3: MIRJT6i-mND1-4-WB0163 10576  
4: MIRJT6i-mND1-4-WB0162 10577  
5: iPS(IMR90)-4-CB-01 10578  
6: IISH6i-CML17-WB0170 10579  
7: WA25-WB0169 10580

**Date Received:**

August 09, 2012

**Date in Test:**

August 15, 2012

**Date Completed:**

August 29, 2012

**Test Information:**

Test Codes: 30744, 30744A  
Immersion, USP / 21 CFR 610.12  
Procedure #: BS210WCR.201

TEST PARAMETERS	PRODUCT	
Approximate Volume Tested	0.5 mL	0.5 mL
Number Tested	14	14
Type of Media	SCD	FTM
Media Volume	400 mL	400 mL
Incubation Period	14 Days	14 Days
Incubation Temperature	20 °C to 25 °C	30 °C to 35 °C
RESULTS	12 NEGATIVE 2 POSITIVE	12 NEGATIVE 2 POSITIVE

Note: SCD and FTM Samples WA09-WB0156 10574 positive.

Testing conducted in accordance with current Good Manufacturing Practices.



# Mycoplasma Report

Testing Performed by WiCell

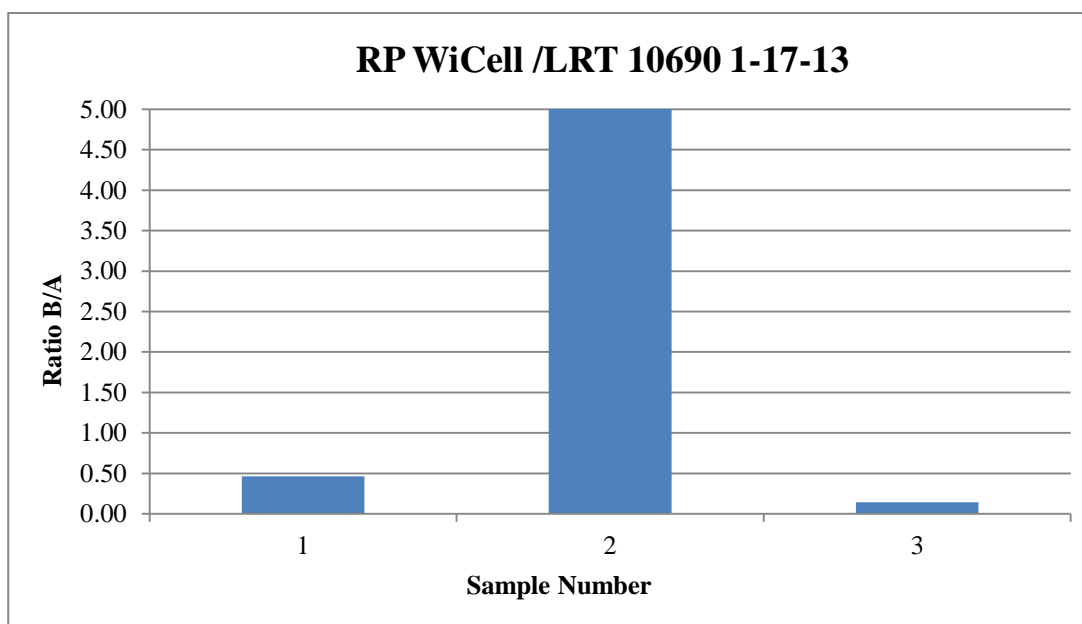
RP WiCell /LRT 10690 1-17-13

Assay performed and reported by: MW

Reviewed by: JB

Equipment: 539 Berthold

Sample Number and ID	Reading A		A Average	Reading B		B Average	Ratio B/A	Mycoplasma Results	Comments/Suggestions
	A1	A2		B1	B2				
1 WB0163-Kp34 MW	469	477	473	217	223	220	0.47	Negative	
2 Positive (+) Control	153	153	153	13001	12986	12993.5	84.92	Positive	
3 Negative (-) Control	347	354	350.5	51	49	50	0.14	Negative	





**Date Reported:** Tuesday, January 15, 2013

**Cell Line:** MIRJT6i-mND1-4-WB0163 10690

**Passage#:** 34

**Date of Sample:** 1/9/2013

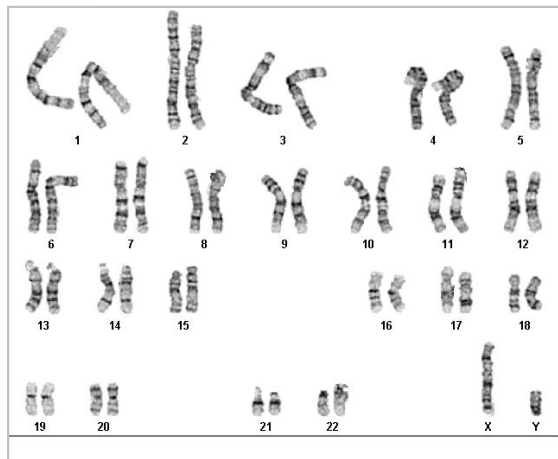
**Specimen:** iPSC

**Results:** 46,XY

**Cell Line Gender:** Male

**Reason for Testing:** Lot release testing

**Investigator:** [REDACTED], CDM



**Cell:** 8

**Slide:** 1

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyotyped:** 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:** [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.