




## Product Information and Testing

### Product Information

Product Name	Zeng02i-iPSH14
Lot Number	WB19497
Depositor	Buck Institute for Research for Aging
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 Dependent
	Medium: hES Medium
	Matrix: MEF
Protocol	WiCell Feeder Dependent Protocol
Passage Number	p51  These cells were cultured for 50 passages prior to freeze. 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 Viald	08-May-2015
Vial Label	Zeng02i-iPSH14 p51 WB19497
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 and recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Consistent with known profile	Pass
Sterility	Biotest Laboratories	ST/07	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
31-August-2015	<div style="text-align: right;">8/31/2015</div> <div style="text-align: center;">             X AMK            AMK            Quality Assurance            Signed by: Carteron, Anjelica         </div>



# 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:**

11290-STR  
**Sample Name on Tube:** 11290-STR  
119.6 ng/μL, (A260/280=1.9)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Department

**Sample Date:** N/A

**Receive Date:** 06/25/15  
**Assay Date:** 06/23/15  
**File Name:** STR\_150701 WMR  
**Report Date:** 07/03/15

STR Locus	STR Genotype Repeat #	STR Genotype
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .	21,21
TPOX		8,8
D8S1179		13,14
vWA		15,16
Amelogenin		X,Y
Penta_D		12,13
CSF1PO		11,12
D16S539		11,13
D7S820		10,11
D13S317		11,11
D5S818		11,13
Penta_E		13,20
D18S51		12,14
D21S11		30,31
TH01		6,7
D3S1358		15,16

**Results:** Based on the 11290-STR cells submitted by WiCell QA dated and received on 06/25/15, this sample (Label on Tube: 11290-STR) exactly matches the STR profile of the human stem cell line WA14 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human WA14 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 11290-STR sample submitted corresponds to the WA14 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 07/03/15

TRIP Laboratory, Molecular

**X** *WMR*

Digitally Signed on 07/03/15

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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# Sterility Report

Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc.  
WiCell Quality Assurance

BIOTEST SAMPLE # 15071050

VALIDATION # NG

TEST PURPOSE NG

PRODUCT Zeng02i-iPSH14-WB19497 11328  
WIC01i-02-1c-WB18031 11329  
WIP06i-iPSCas9Het-WB18995 11330  
WA01-WB16377 11331  
MIN07i-33113.2D-WB19574 11332  
MIN22i-33113.2I-WB19575 11333  
MIN08i-33114.B-WB19546 11334  
MIN09i-33114.C-WB19768 11335  
MIN12i-33362.C-WB19545 11336  
WC-24-02-DS-M-WB18754 1337

PRODUCT LOT NA

STERILE LOT NA

BI LOT NA

STERILIZATION LOT NA

BI EXPIRATION DATE NA

STERILIZATION DATE NA

DATE RECEIVED 2015-07-14

STERILIZATION METHOD NA

TEST INITIATED 2015-07-15

SAMPLING BLDG / ROOM NA

TEST COMPLETED 2015-07-29

REFERENCE Processed according to LAB-003: Sterility Test Procedure

Ten (10) products were each divided between 40 mL TSB and 40 mL FTG. The samples were then cultured at 20-25 C and 30-35 C respectively and were monitored for a minimum of 14 days.

- USP
- BI Manufacturers Specifications
- Other

RESULTS	# POSITIVES	# TESTED	POSITIVE CONTROL	NEGATIVE CONTROL
Sterile	0	10	NA	2 Negatives

COMMENTS NA

REVIEWED BY

DATE 29 JUL 15

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. Liability is limited to the costs of the tests.

Biotest Laboratories • 9303 West Broadway Ave. • Brooklyn Park, MN 55445 • USA • (763) 315-1200

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# Mycoplasma Detection Assay Report

Testing Performed by WiCell

Lot Release Testing

05-28-2015

FORM SOP-QU-004.01

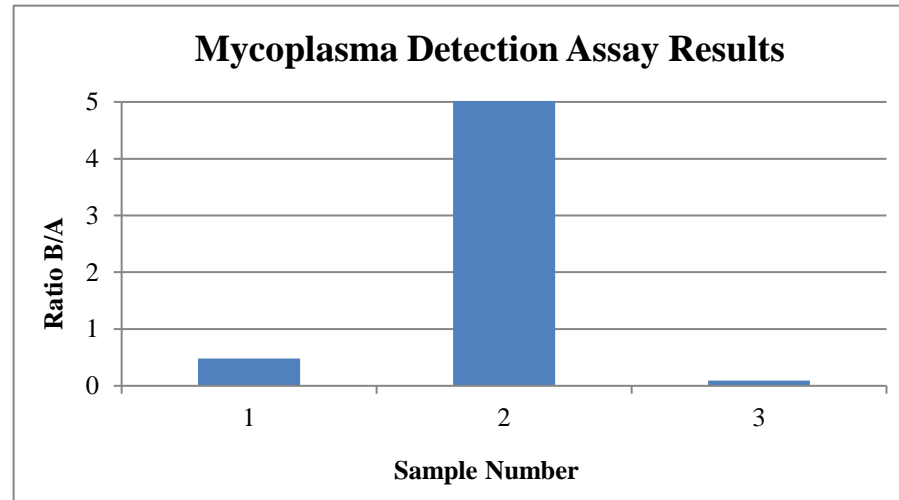
Version D Edition 01

Reported by: SS

Reviewed by: JB

Berthold Flash n' Glo 539

#	Sample Name	Reading A			Reading B			Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2	Ave	RLU1	RLU2	Ave			
1	Zeng02i-iPSH14-WB19497 11290	234	236	235	112	113	112.5	0.48	Negative	
2	Positive (+) Control	215	213	214	16924	16915	16920	79.06	Positive	
3	Negative (-) Control	454	464	459	42	44	43	0.09	Negative	



**Date Reported:** Monday, June 22, 2015  
**Cell Line:** Zeng02i-iPSH14-WB19497 11290  
**Passage#:** 53  
**Date of Sample:** 6/12/2015  
**Specimen:** iPSC  
**Results:** 46,XY

**Cell Line Gender:** Male  
**Reason for Testing:** lot release testing  
**Investigator:** [REDACTED], WiCell CDM



**Cell:** 25  
**Slide:** 2  
**Slide Type:** Karyotype

**Total Counted:** 20  
**Total Analyzed:** 8  
**Total Karyotyped:** 4  
**Band Resolution:** 425 - 475

### 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.*

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