

[Home](#) > [Stem Cell Lines](#) > [Order Stem Cell Lines](#) > **H1 Oct4-EGFP**

H1 Oct4-EGFP

GFP expression linked directly to the Oct4 promoter. A GFP Neomycin construct was added to the H1 cell line via homologous recombination and targeted to the POU1F1 gene. Cells will express GFP when Oct4 is expressed (e.g. undifferentiated state). Oct4/GFP positive cells are selectable using Neomycin. These cells tend to differentiate more frequently and are best grown in slightly sparser conditions. It is not unusual to have to manually remove differentiation at each passage in the absence of selection.

Alias	WA01	QTY	PRICE	<input type="checkbox"/> Check if you received this cell line previously Why?
Cell Type	Modified Human ES	1 - 2	\$1,250.00/vial	
Culture Platform / Protocol	Feeder Independent - TeSR1 Medium	3 - 4	\$1,125.00/vial	
Disease Model	N/A	5+	\$1,062.50/vial	
Genetic Modification Keyword	GFP (mediated)	<div>Related Products</div> <div>H9 hOct4-pGZ</div> <div>H9 hNanog-pGZ</div> <div>WA01 (mTeSR™ 1/Matrigel™ Platform)</div>		
NIH Registry Approved	Yes			
Karyotype	46,XY			
Blood Type	O+			
Publication	Publication			
Provider	University of Wisconsin (Thomson)			

Current Lot Information

Lot Number	Lot Description	Passage Number	Banked By	Product Information and Testing
DL-02	Modified ES Cell; Oct4 mediated GFP	69(10)	WiCell	PDF

Historical Lot Information

Lot Number	Lot Description	Banked By	Product Information and Testing
MCB-01	Modified ES Cell; Oct4 mediated GFP	WiCell	PDF

EXPAND YOUR LAB WITH OURS

ORDER

- [Stem Cell Lines](#)
- [Cytogenetic Services](#)
- [Stem Cell Services](#)

Stem Cell Lines

- [Order Stem Cell Lines](#)
- [About the WiCell Stem Cell Bank](#)
- [Deposit Cell Lines](#)
- [Newly Available Cell Lines](#)
- [Volume and Mix/Match Discounts](#)
- [Clinical Grade \(cGMP\) Cell Banks](#)

Cytogenetic Services

- [Send Samples for Testing](#)
- [Request Pricing Information](#)
- [G-banded Karyotyping](#)
- [Spectral Karyotyping \(SKY\)](#)
- [CGH Microarray](#)
- [Fluorescence In Situ Hybridization \(FISH\)](#)
- [Short Tandem Repeat \(STR\)](#)
- [CGH + SNP Microarray](#)
- [SNP Microarray](#)
- [fastFISH](#)
- [Cytogenetics Reports and Privacy Policy](#)
- [Personnel and Publications](#)

Stem Cell Services

- [Banking Stem Cells](#)
- [Quality Control Testing](#)
- [Request Additional Information](#)

Support

- [Order Support and FAQs](#)
- [WiCell Stem Cell Bank Technical Support](#)
- [Stem Cell Protocols](#)
- [Training and Outreach](#)
- [MSDS](#)
- [New Website Features](#)

About WiCell

- [Key Personnel](#)
- [Contact Us](#)
- [Events](#)
- [Leadership](#)
- [Careers](#)
- [Subscribe](#)
- [Privacy and Terms](#)
- [Newsroom](#)

[Home](#) | [Newsroom](#) | [Contact Us](#) | [WARF](#) | [UW-Madison](#) | [Sitemap](#) | [Email a Friend](#) | [Print This Page](#)

WiCell Research Institute, Inc. is a nonprofit organization offering research and clinical grade pluripotent stem cell lines, cytogenetic testing, quality control testing and cell banking services to researchers worldwide.
Let WiCell be Your Lab Partner! ©2012 WiCell. All rights reserved.



Certificate of Analysis - Amended

Product Description	WA01 Oct4-eGFP Knock In	
Cell Line Provider	University of Wisconsin- Laboratory of Dr. James Thomson	
Lot Number	WA01(Oct4KI)-MCB-1	
Date Viald	04-October-2008	
Passage Number	p60	
Culture Platform	Feeder Independent	
	Media ¹ : TeSR	Matrix: Matrigel

The following testing specifications have been met for the specified product lot:

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 1.2 System by Promega	Consistent with known profile	Pass
Sterility - Direct transfer method	Apptec	30744	Negative	Pass
Mycoplasma	Bionique	M250	No contamination detected	Pass
Karyotype by G-banding	WiCell	SOP-CH-003	Normal karyotype	Pass

¹ These cells were cultured in the presence of G418 (Geneticin, Invitrogen catalog 11811) at a concentration of 50µg/ml. Not used for thawing, passaging, or freezing.

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.

Amendment(s):

Reason for Amendment	Date
CoA updated to include copyright information.	See signature
CoA updated for clarification of test specifications, added media footnote, and removed text regarding technical services	05-October-2010
CoA updated for format changes, clarification of test specifications, test method, addition of test provider, culture platform, and electronic signature, and reference to WiCell instead of the NSCB	19-August-2010
Original CoA	22-April-2009

Date of Lot Release	Quality Assurance Approval
22-April-2009	<div>12/30/2013</div> <div>X AMC</div> <div>AMC</div> <div>Quality Assurance</div> <div>Signed by [REDACTED]</div>

Short Tandem Repeat Analysis*

Sample Report: 6618-STR
WA01(Oct4KI)-MCB-1

UW HLA#: 59824

Sample Date: 11/06/08
Received Date: 11/07/08

Requestor: WiCell Research Institute

Test Date: 11/07/08

File Name: 081107

Report Date: 11/16/08

Sample Name: (label on tube) **6618-STR****Description:** DNA Extracted by WiCell
251.81 ng/ μ L; 260/280 = 1.91

Locus	Repeat #	STR Genotype
D16S539	5, 8-15	9,13
D7S820	6-14	8,12
D13S317	7-15	8,11
D5S818	7-15	9,11
CSF1PO	6-15	12,13
TPOX	6-13	8,11
Amelogenin	NA	X,Y
TH01	5-11	9.3,9.3
vWA	11, 13-21	15,17

Comments: Based on the 6618-STR DNA submitted by WI Cell dated 11/06/08 and received on 11/07/08, this sample (UW HLA# 59824) matches exactly the STR profile of the human stem cell line **H1** comprising 15 allelic polymorphisms across the 8 STR loci analyzed. No STR polymorphisms other than those corresponding to the human H1 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 suggest that the 6618-STR DNA sample submitted corresponds to the H1 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%. These results were communicated via phone to the Cytogenetics laboratory of the WiCell Research Institute on Monday, October 27, 2008. A preliminary copy of this report was issued via electronic mail to the WI Cell Research Institute on Monday, November 17, 2008.

* 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.

WuXi AppTec

Report Number

795304

Page 4 of 7

WiCell Research Institute

December 16, 2008

P.O. #: XXXXXXXXXX

STERILITY TEST REPORT

Sample Information: hES Cells
3: WA01 (Oct4KI)-MCB-1

Date Received: November 25, 2008
Date in Test: December 01, 2008
Date Completed: December 15, 2008

Test Information: Test Codes: 30744, 30744A
Immersion, USP / 21 CFR 610.12
Procedure #: BS210WCR.201 (Modified: Alternate media used.)

TEST PARAMETERS	PRODUCT	
Approximate Volume Tested	0.5 mL	0.5 mL
Number Tested	2	2
Type of Media	SCD	FTM-T-L-S
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	2 NEGATIVE	2 NEGATIVE

Page 1 Signed

Page 1 Signed

QA Reviewed: _____

Reviewed: _____

Testing conducted in accordance with current Good Manufacturing Practices.



APPENDIX IV

Page 1 of 2

Document#: DCF3013D
Edition#: 10
Effective Date: 07/15/2003
Title: **M-250 FINAL REPORT SHEET**

M-250 FINAL REPORT

Direct Specimen Culture
Procedure 3008, 3011, 3013

TO: Wicell QA

BTL SAMPLE ID#: 55226 P.O.#: DATE REC'D: 11/04/2008

TEST/CONTROL ARTICLE:

6618 WA01 (OCT4 KI) MCB1

LOT#: NA

DIRECT CULTURE SET-UP (DAY 0)

DATE: 11/05/2008

INDICATOR CELL LINE (VERO)

SEE DNA FLUOROCHROME RECORD SHEET

DATE

THIOGLYCOLLATE BROTH	DAY 7	+	⊖	<u>11/12/2008</u>
	DAY 28	+	⊖	<u>12/03/2008</u>
BROTH-FORTIFIED COMMERCIAL				
<u>0.5</u> mL SAMPLE	DAY 7	+	⊖	<u>11/12/2008</u>
<u>6.0</u> mL BROTH	DAY 28	+	⊖	<u>12/03/2008</u>
BROTH-MODIFIED HAYFLICK				
<u>0.5</u> mL SAMPLE	DAY 7	+	⊖	<u>11/12/2008</u>
<u>6.0</u> mL BROTH	DAY 28	+	⊖	<u>12/03/2008</u>
BROTH-HEART INFUSION				
<u>0.5</u> mL SAMPLE	DAY 7	+	⊖	<u>11/12/2008</u>
<u>6.0</u> mL BROTH	DAY 28	+	⊖	<u>12/03/2008</u>

(See Reverse)

Document#: DCF3013D
 Edition#: 10
 Effective Date: 07/15/2003
 Title: M-250 FINAL REPORT SHEET

SAMPLE ID#:	55226	AEROBIC	MICROAEROPHILIC	DATE
AGAR PLATES-FORTIFIED COMMERCIAL	DAY 7	+ ⊖	+ ⊖	11/12/2008
	DAY 14	+ ⊖	+ ⊖	11/19/2008
	DAY 21	+ ⊖	+ ⊖	11/26/2008
AGAR PLATES-MODIFIED HAYFLICK	DAY 7	+ ⊖	+ ⊖	11/12/2008
	DAY 14	+ ⊖	+ ⊖	11/19/2008
	DAY 21	+ ⊖	+ ⊖	11/26/2008
AGAR PLATES-HEART INFUSION	DAY 7	+ ⊖	+ ⊖	11/12/2008
	DAY 14	+ ⊖	+ ⊖	11/19/2008
	DAY 21	+ ⊖	+ ⊖	11/26/2008
BROTH SUBCULTURES (DAY 7)		DATE: 11/12/2008		
AGAR PLATES-FORTIFIED COMMERCIAL	DAY 7	+ ⊖	+ ⊖	11/19/2008
	DAY 14	+ ⊖	+ ⊖	11/26/2008
	DAY 21	+ ⊖	+ ⊖	12/03/2008
AGAR PLATES-MODIFIED HAYFLICK	DAY 7	+ ⊖	+ ⊖	11/19/2008
	DAY 14	+ ⊖	+ ⊖	11/26/2008
	DAY 21	+ ⊖	+ ⊖	12/03/2008
AGAR PLATES-HEART INFUSION	DAY 7	+ ⊖	+ ⊖	11/19/2008
	DAY 14	+ ⊖	+ ⊖	11/26/2008
	DAY 21	+ ⊖	+ ⊖	12/03/2008

RESULTS: No detectable mycoplasmal contamination

12/3/08
 Date

Laboratory Director

M-250 Procedural Summary: The objective of this test is to ascertain whether or not detectable mycoplasmas are present in an *in vitro* cell culture sample, be it a primary culture, hybridoma, master seed stock or cell line. This procedure combines an indirect DNA staining approach to detect non-cultivable mycoplasmas with a direct culture methodology utilizing three different mycoplasma media formulations. The indirect approach involves the inoculation of the sample into a mycoplasma-free VERO (ATCC) indicator cell line and performing a DNA fluorochrome assay after 72-120 hours of incubation. The direct culture aspect of the test utilizes three different mycoplasma media including both broth and agar formulations. The sample is inoculated into each of the 3 broth formulations and also onto duplicate plates (0.1 mL/plate) for each of the 3 agar formulations. Subculture from broth to fresh agar plates is carried out after 7 days incubation. Agar plates are incubated aerobically and microaerophilically in order to detect any colony forming units morphologically indicative of mycoplasma contamination. Issuance of the final report with signature of the Scientific Director/Study Director signifies that the required controls were performed concurrently with the test sample(s) as detailed in the referenced SOPs and that all test conditions have been found to meet the required acceptance criteria for a valid test, including the appropriate results for the positive and negative controls.



APPENDIX I

Document #: DCF3008A
Edition #: 06
Effective date: 9/17/2003
Title: DNA FLUOROCHROME ASSAY RESULTS

DNA-FLUOROCHROME ASSAY RESULTS

Procedures 3008, 3009, 3011

Sample ID # 55226 M-250 Date Rec'd: 11/04/2008 P.O. #

Indicator Cells Inoculated: Date/Initials: 11/6/08 / JA

Fixation: Date/Initials: 11/10/08 / KG

Staining: Date/Initials: 11/10/08 / KG

TEST/CONTROL ARTICLE:

6618 WA01 (OCT4 KI) MCB1

LOT# NA

Wicell QA
WiCell Research Institute

DNA FLUOROCHROME ASSAY RESULTS:

X **NEGATIVE:** A reaction with staining limited to the nuclear region, which indicates no mycoplasmal contamination.

 POSITIVE: A significant amount of extranuclear staining which strongly suggests mycoplasmal contamination.

 INCONCLUSIVE:

 A significant amount of extranuclear staining consistent with low - level mycoplasmal contamination or nuclear degeneration.

 A significant amount of extranuclear staining consistent with bacterial, fungal or other microbial contaminant or viral CPE. Morphology not consistent for mycoplasmal contamination.

COMMENTS: _____

Date: 11/10/08 Results Read by: KG Date of Review: 11/10/08 Reviewed by: SA

Report Date: November 11, 2008

Case Details:

Cell Line: WA01(Oct4KI)-MCB-1 (6618)

Passage #: 62

Date Completed: 11/10/2008

Cell Line Gender: Male

Investigator: WiCell Stem Cell Bank

Specimen: hESC on Matrigel

Date of Sample: 10/31/2008

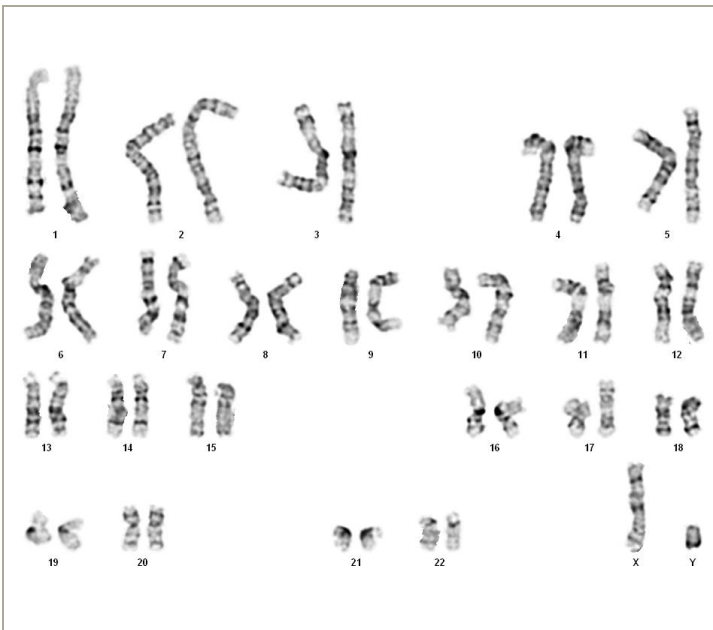
Tests, Reason for: Wisc Bank- FTDL

Results: 46,XY

Completed by ST, CLSp(CG), on 11/10/2008

Reviewed and interpreted by KDM, PhD, FACMG, on 11/10/2008

Interpretation: No abnormalities were detected at the stated band level of resolution.



Cell: S01-03

Slide: B

Slide Type: Karyotyping

Cell Results: Karyotype: 46,XY

of Cells Counted: 20

of Cells Karyotyped: 3

of Cells Analyzed: 7

Band Level: 450-550

Results Transmitted by Fax / Email / Post
Sent By: _____

Date: _____
Sent To: _____



Product Information and Testing - Amended

Product Information

Product Name	H1 OCT4-EGFP
Lot Number	WA01(Oct4KI)-DL-02
Parent Material	WA01(Oct4KI)-MCB-01
Depositor	University of Wisconsin – Laboratory of Dr. James Thomson
Banked by	WiCell
Thaw Recommendation	Thaw 1 vial into 1 well of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR1
	Matrix: Matrigel
Protocol	WiCell Feeder Independent Protocol modified to include feeding cells in the presence of G418 (Geneticin, Invitrogen catalog 11811) at a concentration of 50µg/ml. Not used for thawing, passaging, or freezing.
Passage Number	p69(10) These cells were cultured for 68 passages prior to freeze, 10 of them in mTeSR1/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 Viald	26-March-2009
Vial Label	WA01(OCT4KI)-DL-2 P69(10) JT 26 MAR 2009 SOPCC038A
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 1.2 System by Promega	Consistent with known profile	Pass
Sterility - Direct transfer method	Apptec	30744	Negative	Pass
Mycoplasma	Bionique	M250	No contamination detected	Pass
Karyotype by G-banding	WiCell	SOP-CH-003	Normal karyotype	Pass

Amendment(s):

Reason for Amendment	Date
CoA updated to include copyright information.	See signature
CoA updated for format changes, including adding fields of thaw recommendation, vial label, protocol, and banked by, and incorporation of footnotes.	28-Jun-2013
CoA updated for clarification of test specifications and product description, added media footnote, and removed text regarding technical services	05-Oct-2010
CoA updated for format changes, clarification of test specifications, test method, addition of test provider, culture platform, and electronic signature, and reference to WiCell instead of the NSCB	19-Aug-2010
Original CoA	21-Sept-2009



Product Information and Testing - Amended

Date of Lot Release	Quality Assurance Approval
21-September-2009	<div>12/30/2013</div> <div>X AMC</div> <div>AMC Quality Assurance Signed by [REDACTED]</div>

Short Tandem Repeat Analysis*

Sample Report: 8831-STR

UW HLA#: 61157

Sample Date: 06/18/09

Received Date: 06/18/09

Requestor: WiCell Research Institute

Test Date: 06/23/09

File Name: 090624

Report Date: 06/25/09

Sample Name: (label on tube) 8831-STR

Description: DNA Extracted by WiCell
271.19 ng/ μ L; 260/280 = 1.89

Locus	Repeat #	STR Genotype
D16S539	5, 8-15	9,13
D7S820	6-14	8,12
D13S317	7-15	8,11
D5S818	7-15	9,11
CSF1PO	6-15	12,13
TPOX	6-13	8,11
Amelogenin	NA	X,Y
TH01	5-11	9.3,9.3
vWA	11, 13-21	15,17

Comments: Based on the 8831-STR DNA submitted by WI Cell dated 06/18/09 and received on 06/18/09, this sample (UW HLA# 61157) matches exactly the STR profile of the human stem cell line H1 comprising 15 allelic polymorphisms across the 8 STR loci analyzed. No STR polymorphisms other than those corresponding to the human H1 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 suggest that the 8831-STR DNA sample submitted corresponds to the H1 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%.

Date

HLA/Molecular Diagnostics Laboratory

Date

HLA/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.

WiCell Research Institute

Report Number
806290
Page 9 of 9

April 23, 2009
P.O. #:

STERILITY TEST REPORT

Sample Information: hES Cells
8: WA01 (Oct 4 KI)-DL-2, 4976

Date Received: April 07, 2009
Date in Test: April 08, 2009
Date Completed: April 22, 2009

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	2	2
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	2 NEGATIVE	2 NEGATIVE

Page 1 Signed

QA Reviewer

Date

Page 1 Signed

Technical Reviewer

Date



APPENDIX IV

Page 1 of 2

Document#: DCF3013D
Edition#: 10
Effective Date: 07/15/2003
Title: M-250 FINAL REPORT SHEET

M-250 FINAL REPORT

Direct Specimen Culture
Procedure 3008, 3011, 3013

TO:

BTL SAMPLE ID#: 57705 P.O.#: DATE REC'D: 06/11/2009

TEST/CONTROL ARTICLE:

WA01 (Oct4K1) -DL-02-G #8831

LOT#: NA

DIRECT CULTURE SET-UP (DAY 0)

DATE: 06/11/2009

INDICATOR CELL LINE (VERO)

SEE DNA FLUOROCHROME RECORD SHEET

			DATE
THIOGLYCOLLATE BROTH	DAY 7	+ ⊖	<u>06/18/2009</u>
	DAY 28	+ ⊖	<u>07/09/2009</u>
BROTH-FORTIFIED COMMERCIAL			
<u>0.5</u> mL SAMPLE	DAY 7	+ ⊖	<u>06/18/2009</u>
<u>6.0</u> mL BROTH	DAY 28	+ ⊖	<u>07/09/2009</u>
BROTH-MODIFIED HAYFLICK			
<u>0.5</u> mL SAMPLE	DAY 7	+ ⊖	<u>06/18/2009</u>
<u>6.0</u> mL BROTH	DAY 28	+ ⊖	<u>07/09/2009</u>
BROTH-HEART INFUSION			
<u>0.5</u> mL SAMPLE	DAY 7	+ ⊖	<u>06/18/2009</u>
<u>6.0</u> mL BROTH	DAY 28	+ ⊖	<u>07/09/2009</u>

(See Reverse)

Document#: DCF3013D
 Edition#: 10
 Effective Date: 07/15/2003
 Title: M-250 FINAL REPORT SHEET

SAMPLE ID#:	57705	AEROBIC	MICROAEROPHILIC	DATE
AGAR PLATES-FORTIFIED	DAY 7	+	⊖	06/18/2009
COMMERCIAL	DAY 14	+	⊖	06/25/2009
	DAY 21	+	⊖	07/02/2009
AGAR PLATES-MODIFIED	DAY 7	+	⊖	06/18/2009
HAYFLICK	DAY 14	+	⊖	06/25/2009
	DAY 21	+	⊖	07/02/2009
AGAR PLATES-HEART	DAY 7	+	⊖	06/18/2009
INFUSION	DAY 14	+	⊖	06/25/2009
	DAY 21	+	⊖	07/02/2009

BROTH SUBCULTURES (DAY 7)

DATE: 06/18/2009

AGAR PLATES-FORTIFIED	DAY 7	+	⊖	06/25/2009
COMMERCIAL	DAY 14	+	⊖	07/02/2009
	DAY 21	+	⊖	07/09/2009
AGAR PLATES-MODIFIED	DAY 7	+	⊖	06/25/2009
HAYFLICK	DAY 14	+	⊖	07/02/2009
	DAY 21	+	⊖	07/09/2009
AGAR PLATES-HEART	DAY 7	+	⊖	06/25/2009
INFUSION	DAY 14	+	⊖	07/02/2009
	DAY 21	+	⊖	07/09/2009

RESULTS: No detectable mycoplasmal contamination

7-9-09
 Date

Laboratory Director

M-250 Procedural Summary: The objective of this test is to ascertain whether or not detectable mycoplasmas are present in an *in vitro* cell culture sample, be it a primary culture, hybridoma, master seed stock or cell line. This procedure combines an indirect DNA staining approach to detect non-cultivable mycoplasmas with a direct culture methodology utilizing three different mycoplasmal media formulations. The indirect approach involves the inoculation of the sample into a mycoplasma-free VERO (ATCC) indicator cell line and performing a DNA fluorochrome assay after 72-120 hours of incubation. The direct culture aspect of the test utilizes three different mycoplasmal media including both broth and agar formulations. The sample is inoculated into each of the 3 broth formulations and also onto duplicate plates (0.1 mL/plate) for each of the 3 agar formulations. Subculture from broth to fresh agar plates is carried out after 7 days incubation. Agar plates are incubated aerobically and microaerophilically in order to detect any colony forming units morphologically indicative of mycoplasmal contamination. Issuance of the final report with signature of the Laboratory Director signifies that the required controls were performed concurrently with the test sample(s) as detailed in the referenced SOPs and that all test conditions have been found to meet the required acceptance criteria for a valid test, including the appropriate results for the positive and negative controls.



APPENDIX I

Document #: DCF3008A
Edition #: 06
Effective date: 9/17/2003
Title: DNA FLUOROCHROME ASSAY RESULTS

DNA-FLUOROCHROME ASSAY RESULTS

Procedures 3008, 3009, 3011

Sample ID # 57705 M-250 Date Rec'd: 06/11/2009 P.O. #

Indicator Cells Inoculated: Date/Initials: 6/11/09 / JA

Fixation: Date/Initials: 6/15/09 / JA

Staining: Date/Initials: 6/15/09 / JA

TEST/CONTROL ARTICLE:

WA01(Oct4K1)-DL-02-G #8831LOT# NA**DNA FLUOROCHROME ASSAY RESULTS:**

X **NEGATIVE:** A reaction with staining limited to the nuclear region, which indicates no mycoplasmal contamination.

 POSITIVE: A significant amount of extranuclear staining which strongly suggests mycoplasmal contamination.

 INCONCLUSIVE:

 A significant amount of extranuclear staining consistent with low - level mycoplasmal contamination or nuclear degeneration.

 A significant amount of extranuclear staining consistent with bacterial, fungal or other microbial contaminant or viral CPE. Morphology not consistent for mycoplasmal contamination.

COMMENTS: _____

Date: 6/15/09 Results Read by: JA Date of Review: 6/15/09 Reviewed by: U

Report Date: June 03, 2009

Case Details:

Cell Line: WA01(Oct4KI)-DL-2 (8831)

Passage #: 73(14)

Date Completed: 6/3/2009

Cell Line Gender: Male

Investigator: National Stem Cell Bank

Specimen: hESC on Matrigel

Date of Sample: 5/29/2009

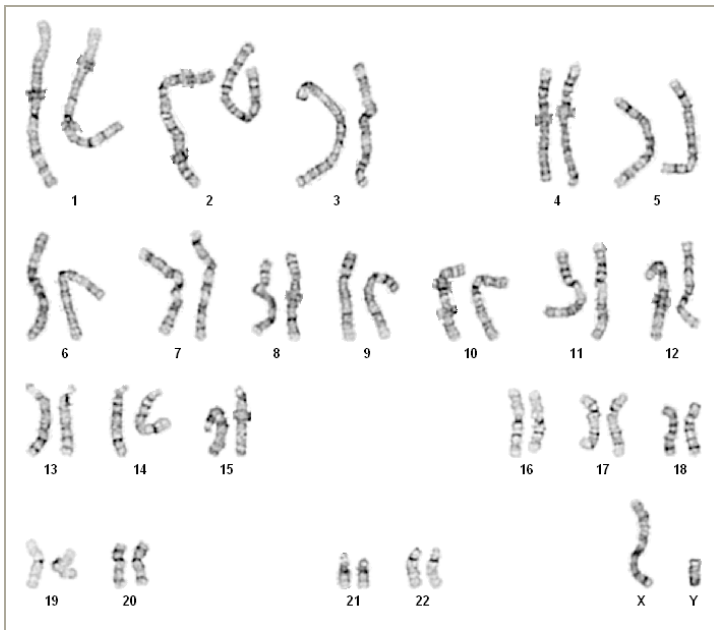
Tests, Reason for: FTDL Equivalent

Results: 46,XY

Completed by _____ on 6/3/2009

Reviewed and interpreted by _____ on 6/3/2009

Interpretation: No abnormalities were detected at the stated band level of resolution.



Cell: S01-01

Slide: A

Slide Type: Karyotyping

Cell Results: Karyotype: 46,XY

of Cells Counted: 20

of Cells Karyotyped: 4

of Cells Analyzed: 8

Band Level: 450-600

Results Transmitted by Fax / Email / Post

Sent By: _____

QC Review By: _____

Date: _____

Sent To: _____

Results Recorded: _____