

Cell Line: WA01

Lot: 11

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This material predates when WiCell produced a certificate of analysis for each lot. Therefore, a certificate of analysis is not available. The following pages are the reports for the testing completed for this lot.

If you have any questions please contact WiCell's technical support staff via our website side at www.wicell.org and we will be happy to assist you.

Thank you,

WiCell



Histocompatibility/Molecular Diagnostics Laboratory D4/231; (608) 263-8815 600 Highland Avenue Madison, WI 53792-2472

Short Tandem Repeat Analysis*

Sample Report: H1p29 lot 11

UW HLA#: 55804

Sample Date: 02/23/07 Received Date: 02/27/07

Requestor: WICell Research Institute

Test Date: 02/28/07

File Name: 070228

Report Date: 03/02/07

Sample Name: (label on tube) H1 p29 lot11

02/23/07 DF

Description: not indicated

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: The concentration of purified DNA isolated from the H1p29 Lot11 human embryonic stem cell sample dated 02/23/07 and received 02/27/07 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.

David F. Lorentzen, Manager Date HLA/Molecular Diagnostics Laboratory

William M. Rehrauer, PhD, Director 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.

File: Final STR Report

BIONIQUE TESTING LABORATORIES, INC 156 Fay Brook Drive Saranac Lake, NY 12983 Phone: 518-891-2356 FAX: 518-891-5753

APPENDIX I Document #: Edition #: Effective date:	DCF3008A 06 9/17/2003					
Title:	DNA FLUOROCHROME ASSAY RESULTS					
	DNA-FLUOROCHROME ASSAY RESULTS Procedures 3008, 3009, 3011	is .				
Sample ID # 47554	<u>M-250</u> Date Rec'd: <u>02/22/2007</u> P.O. # <u>RP1197</u>					
Indicator Cells Inoculated:	Date/Initials: 22207					
Fixation:	Date/Initials: Z/Z(a/67/					
Staining:	Date/Initials: Z/Z(o/g7/					
TEST/CONTROL ARTICLE:						
H1 p29						
LOT# <u>11</u>						
Distribution						
WiCell Research Institu	<u>te</u> Phone:					
	Fax #:					
v						
DNA FLUOROCHROME	ASSAY RESULTS:					
NEGATIVE	A reaction with staining limited to the nuclear region, which indic no mycoplasmal contamination.	ates				
POSITIVE:	A significant amount of extranuclear staining which strongly suggests mycoplasmal contamination.					
INCONCLU	SIVE:					
	A significant amount of extranuclear staining consistent with low-l mycoplasmal contamination or nuclear degeneration.	level				
	A significant amount of extranuclear staining consistent with bacterial, fungal or other microbial contaminant or viral CPE. Morphology not consistent for mycoplasmal contamination.					
COMMENTS:						
7/2.1-	, ,					
Date: CMION Result	s Read by: Date of Paview: -2/2///2 Paviewed by:					



BIONIQUE TESTING LABORATORIES, INC. 156 FAY BROOK DRIVE SARANAC LAKE, NY 12983 PHONE: 518-891-2356 FAX: 518-891-5753

APPENDIX IV Document#: Edition#:

DCF3013D 10 07/15/2003 M-250 FINAL REPORT SHEET

Effective Date: Title:

M-250 FINAL REPORT

Direct Specimen Culture Procedure 3008, 3011, 3013

TO: Distribution WiCell Research Institute

BTL SAMPLE ID#: 47554

P.O.#: RP1197

DATE REC'D:

02/22/2007

Page 1 of 2

TEST/CONTROL ARTICLE:

H1 p29

LOT#: 11

DIRECT CULTURE SET-UP (DAY 0)]	DATE: 02/22/	2007
INDICATOR CELL LINE (VERO)	SEE DNA FL	UOROCHROME RECORD SI	
			DATE
THIOGLYCOLLATE BROTH	DAY 7	+ 🔾	03/01/2007
	DAY 28	+ 🖯	03/22/2007
BROTH-FORTIFIED COMMERCIAL			
0.5 mL SAMPLE	DAY 7	+ 😊	03/01/2007
6.0 mL BROTH	DAY 28	+ 🗇	03/22/2007
BROTH-MODIFIED HAYFLICK			
0.5 mL SAMPLE	DAY 7	+ 🔾	03/01/2007
6.0 mL BROTH	DAY 28	+ 🕞	03/22/2007
BROTH-HEART INFUSION			
0.5 mL SAMPLE	DAY 7	+ 🕤	03/01/2007
6.0 mL BROTH	DAY 28	+ 🕒	03/22/2007
(See Reverse)			

APPENDIX IV

Document#:

DCF3013D

Edition#:

10

Effective Date:

07/15/2003

Title:

M-250 FINAL REPORT SHEET

SAMPLE ID#: 47554		AEROBIC	MICROAEROPHILIC	DATE
AGAR PLATES-FORTIFIED COMMERCIAL	DAY 7 DAY 14 DAY 21	+ ① + ① + ①	.+ © + © + ⊙	$\frac{03/01/2007}{03/08/2007}$ $\frac{03/15/2007}{03/15/2007}$
AGAR PLATES-MODIFIED HAYFLICK	DAY 7 DAY 14 DAY 21	+ (i) + (ii) + (iii)	+ © + ⊙ + ©	$\frac{03/01/2007}{03/08/2007}$ $\frac{03/15/2007}{03/15/2007}$
AGAR PLATES-HEART INFUSION	DAY 7 DAY 14 DAY 21	+ (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	+ 😊 + 😊 + 😊	$\frac{03/01/2007}{03/08/2007}$ $\frac{03/15/2007}{03/15/2007}$
BROTH SUBCULTURES (DAY 7)		DATE: 03	/01/2007	
AGAR PLATES-FORTIFIED COMMERCIAL	DAY 7 DAY 14 DAY 21	+	+ (O) + (O) + (O)	$\frac{03/08/2007}{03/15/2007}$ $\frac{03/22/2007}{03/22/2007}$
AGAR PLATES-MODIFIED HAYFLICK	DAY 7 DAY 14 DAY 21	+ (-) + (-) + (-)	+ () + () + ()	$\frac{03/08/2007}{03/15/2007}$ $\frac{03/22/2007}{03/22/2007}$
AGAR PLATES-HEART INFUSION	DAY 7 DAY 14 DAY 21	+ (D) + (D) + (D)	+ (<u>)</u> + (<u>)</u> + (<u>)</u>	03/08/2007 03/15/2007 03/22/2007

RESULTS: No detectable mycoplasmal contamination

Date

4-250 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 VENO (ATCC) interest 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 increaserophillically in order to detect any colony forming units morphologically indicative of mycoplasmal 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 SOSs 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.

WiCell Cytogenetics Report: 000092-022107

Report Date: February 28, 2007

Case Details:

Cell Line: H1 lot 11

Passage #: 29

Date Completed:

Cell Line Gender: Male

Investigator:

Specimen: hESC on MEF feeder

Date of Sample: 2/21/2007

Tests, Reason for: G-Band chromosome analysis of H1 lot 11 p29 for distribution lot characterization

Results: 46,XY

Completed by

Feb-07

Reviewed and interpreted

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

Cell: S01-03

Slide: B

Slide Type: Karyotyping

Cell Results: Karyotype: 46,XY

of Cells Counted: 20

of Cells Karyotyped: 5

of Cells Analyzed: 9

Band Level: 450-500

WiCell Cytogenetics Report: