

## Product Information and Testing

Cell Line: BG03 Lot: 11-Jul-04

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Warrat and David	_
Karyotype Report	<i>/</i>

If you have any questions please contact WiCell's technical support staff at <a href="https://www.wicell.org">www.wicell.org</a> 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: WiCell 8228-STR UW HLA#: 57551 BG03 (lot# 11Jul04) Sample Date: 11/21/07 Received Date: 11/21/07

Requestor: WiCell Research Institute

Test Date: 11/21/07 File Name: 071126 Report Date: 12/01/07,

reformatted 12/09/07

Sample Name: (label on tube) Description: DNA Extracted by WiCell

WiCell 8228-STR

99 ug/mL; 260/280 = 1.7

Locus	Repeat #	STR Genotype
D16S539	5, 8-15	11,13
D7S820	6-14	11,11
D13S317	7-15	8,12
D5S818	7-15	13,13
CSF1PO	6-15	12,12
TPOX	6-13	8,8
Amelogenin	NA	X,X
TH01	5-11	6,7
vWA	11, 13-21	16,16

Comments: Based on the 8228-STR DNA submitted by WI Cell dated 11/21/07 and received on 11/21/07, this sample (UW HLA# 57551) matches exactly the STR profile of the human stem cell line BG03 comprising 11 allelic polymorphisms across the 8 STR loci analyzed. No STR polymorphisms other than those corresponding to the human BG03 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. These results suggest that the DNA sample submitted corresponds to the BG03 stem cell line and it 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%. A copy of this report was issued via electronic mail to both CS and JJ of WI Cell Research Institute on Monday, December 10, 2007.

\* 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

Test Facility: 1265 Kennestone Circle Marietta, GA 30066 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.



762719
Page 4 of 4

December 06, 2007 P.O. #: RP1540

Report Number

WiCell Research Institute

19

n

### STERILITY TEST REPORT

Sample Information:

Human embryonic stem cell line on mouse feeder layer

3: BG03 (lot # 11 Jul 04)

Date Received:

November 20, 2007

Date in Test:

November 21, 2007 December 05, 2007

Date Completed: Test Information:

Test Codes: 30744, 30744A

Immersion, USP / 21 CFR 610.12 Procedure #: BS210WCR.02

TEST PARAMETERS	PRODUCT		
Approximate Volume Tested	0.48 mL	0.48 mL	
Number Tested	1	1	
Type of Media	SCD	FTM	
Media Volume	200 mL	200 mL	
Incubation Period	14 Days	14 Days	
Incubation Temperature	20 °C to 25 °C	30 °C to 35 °C	
RESULTS	1 NEGATIVE	1 NEGATIVE	

	Page 1 Signed		Page 1 Signed	
QA Reviewed:		Reviewed:	- ago r olgilou	

Testing conducted in accordance with current Good Manufacturing Practices.



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

APPENDIX IV

Page 1 of 2

Document#: Edition#:

DCF3013D

10

Effective Date:

07/15/2003

Title:

M-250 FINAL REPORT SHEET

#### M-250 FINAL REPORT

Direct Specimen Culture Procedure 3008, 3011, 3013

TO: Distribution Lab

WiCell Research Institute

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BTL SAMPLE ID#: 50627

P.O.#: RP1549

DATE REC'D:

11/13/2007

TEST/CONTROL ARTICLE:

10+11-bi-04

LOT#:

NA

DIRECT CULTURE SET-UP (DAY 0)	DATE: 11/14/2007	
INDICATOR CELL LINE (VERO)	SEE DNA FLUOROCHROME RECORD SHEET	
	1	DATE
THIOGLYCOLLATE BROTH	DAY 7 + 🔾 11/2	21/2007
	DAY 28 + 🔾 <u>12/1</u>	L2/2007
BROTH-FORTIFIED COMMERCIAL		
0.5 mL SAMPLE	DAY 7 + 🕤 <u>11/2</u>	21/2007
6.0 mL BROTH	DAY 28 + 🕒 <u>12/1</u>	2/2007
BROTH-MODIFIED HAYFLICK		
0.5 mL SAMPLE	DAY 7 + - <u>11/2</u>	21/2007
6.0 mL BROTH	DAY 28 + 🕤 12/1	2/2007
BROTH-HEART INFUSION		
0.5 mL SAMPLE	DAY 7 + - <u>11/2</u>	1/2007
6.0 mL BROTH	DAY 28 + 🗇 <u>12/1</u>	2/2007
(See Reverse)		

Document#:

DCF3013D

Edition#:

10

Effective Date:

07/15/2003

Title:

M-250 FINAL REPORT SHEET

SAMPLE ID#: 50627		AEROBIC	MICROAEROPHILIC	DATE
AGAR PLATES-FORTIFIED COMMERCIAL	DAY 7 DAY 14 DAY 21	+ (-) + (-) + (-)	+ © + © + ©	$\frac{11/21/2007}{11/28/2007}$ $\frac{12/05/2007}{12}$
AGAR PLATES-MODIFIED HAYFLICK	DAY 7 DAY 14 DAY 21	+ () + () + ()	+ (-) + (-) + (-)	$\frac{11/21/2007}{11/28/2007}$ $\frac{12/05/2007}{12}$
AGAR PLATES-HEART INFUSION	DAY 7 DAY 14 DAY 21	+ (5) + (7)	+ (D) + (D) + (D)	11/21/2007 11/28/2007 12/05/2007
BROTH SUBCULTURES (DAY 7)		DATE: <u>11</u>	/21/2007	
AGAR PLATES-FORTIFIED COMMERCIAL	DAY 7 DAY 14 DAY 21	+ () + ()	+ 0 + 0 + 0	11/28/2007 12/05/2007 12/12/2007
	DAY 14	+ + + + + + + + + + + + + + + + + + + +		12/05/2007

RESULTS: No detectable mycoplasmal contamination

12 2 07
Date

(a

h.D.

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 microaerophillically 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 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.

# Mycoplasma Testing Services

APPENDIX I

Document #: Edition #:

#### MYCOPLASMA TESTING SERVICES

DCF3008A

06

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

Effective date: Title:	9/17/2003 DNA FLUOROCH	ROME ASSAY RES	ULTS	
-		ROME ASSAY RESULTS		
Sample ID # <u>50627</u>	M-250	1 1	P.O. # <b>RP1549</b>	
Indicator Cells Inoculated:	Date/Initials:	1/15/07	_	
Fixation:	Date/Initials:	07 / KG		
Staining:	Date/Initials:	107 / KG		
TEST/CONTROL ARTICLE:			_	
BG03 p31				
LOT# <u>NA</u>				
New York I ah				
	J.	Phone:		
		Fax #:		
4				
	E ACCAN DECILITE.			
DNA FLUOROCHROM			et 3	
XNEGATIVE	A reaction with st no mycoplasmal c	aining limited to the ontamination.	nuclear region, v	vhich indicates
POSITIVE:	A significant amount mycoplasmal cont	unt of extranuclear s amination.	taining which str	ongly suggests
INCONCLU	JSIVE:			
-	A significant amou mycoplasmal cont	unt of extranuclear st camination or nuclea	aining consistent r degeneration.	with low - level
	fungal or other m	ant of extranuclear s icrobial contaminan coplasmal contamina	t or viral CPE. N	with bacterial, Morphology not
COMMENTS:	4		· ·	<u> </u>
Date: 11 19 07 Resi	ults Read by: K6	Date of Review:	19 07 Reviewed	by:CW