GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service

STR Profile Report

Sample Submitted By:	Dr. Jinghai Wan, Dr. Jin Zhang Cancer Hospital, National Cancer Centre of China, Chinese Academy of Medical Sciences
Email Address:	wanjinghai@sina.com; mydear07@163.com
Sales Order:	171121C
Cell Line Designation:	8591
Date Sample Received:	Nov 21th, 2017
Report Date:	Nov 22th, 2017

Methodology: Nineteen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available EX20 Kit from AGCU. The cell line sample was processed using the ABI Prism® 3500 Genetic Analyzer. Data were analyzed using GeneMapper® ID-X v1.4 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

Data Interpretation: Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer. 2013;132(11):2510-9.

GTB™ performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.

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Test Results for Submitted Sample			DSMZ Reference Database Profile
Loci	**Query Profile:** 8591		**Database Profile:** NA
Amelogenin	X		
D3S1358	16	18	
D13S317	8	11	
D7S820	11	12	
D16S539	11	12	
Penta E	10	17	
TPOX	11		
TH01	9		
D2S1338	18	19	
CSF1PO	10	11	
Penta D	9	12	
D19S433	13		
vWA	17		
D21S11	29	31.2	
D18S51	12	26	
D6S1043	14	19	
D8S1179	14	16	
D5S818	10		
D12S391	17	18	
FGA	25		

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (8 core STR loci plus Amelogenin) can be made public to verify cell identity. In order to protect the identity of the donor, ***please do not publish*** *the allele calls from all the STR loci tested.*

Explanation of Test Results

Cell lines with ≥80% match are considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

- ☑ The submitted sample profile is human, but not a match for any profile in the DSMZ STR database.
- ☐ The submitted profile is an exact match for the following human cell line(s) in the DSMZ STR database (8 core loci plus Amelogenin):
- ☐ The submitted profile is similar to the following DSMZ human cell line(s):

e-Signature, Technician:

GENETIC TESTING BIOTECHNOLOGY GUARANTEE CELL LINE AUTHENTICATION

Digitally signed by Faye Wong
DN: cn=Faye Wong, o=Genetic Testing Biotechnology (Suzhou), ou=DNA Typing Section, email=str_service@163.com, c=CN
Date: 2017.11.22 16:31:55 +08'00'

e-Signature, Reviewer:

Digitally signed by Alan Cui
DN: cn=Alan Cui, o=Genetic Testing Biotechnology Corporation (Suzhou), ou=Supervision Section, email=str_order@163.com, c=CN
Date: 2017.11.22 16:33:04 +08'00'

More information

Addendum: Electropherogram/matching results for the customer's sample set 1 of 1

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