GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service

STR Profile Report

Sample Submitted By:	Dr. Peiquan Zhao Xinhua Hospital, Shanghai Jiao Tong University School of Medicine
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Sales Order:	180627A
Cell Line Designation:	293
Date Sample Received:	Jun 27th, 2018
Report Date:	Jun 28th, 2018

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.

Technical Questions?
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Test Results for Submitted Sample			DSMZ Reference Database Profile	
Loci	**Query Profile:** 293		**Database Profile:** 293	
Amelogenin	X		X	
D3S1358	15	17		
D13S317	12	14	12	14
D7S820	11	12	11	12
D16S539	9		9	
Penta E	7	15		
TPOX	11		11	
TH01	7	9.3	7	9.3
D2S1338	19			
CSF1PO	11	12	11	12
Penta D	9	10		
D19S433	18			
vWA	16	19	16	19
D21S11	28	30.2		
D18S51	18			
D6S1043	11			
D8S1179	12	14		
D5S818	8	9	8	9
D12S391	19	21		
FGA	23			

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 In order to protect the identity of the donor, ***please do not publish*** *the allele calls from all the STR loci tested.*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): 293
- ☐ 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=order@jsdna.org, c=CN
Date: 2018.06.28 16:23:22 +08'00'

e-Signature, Reviewer:

Digitally signed by Alan Cui
DN: cn=Alan Cui, o=Genetic Testing Biotechnology (Suzhou), ou=Supervision Section, email=service@jsdna.org, c=CN
Date: 2018.06.28 16:23:36 +08'00'

More information

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

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