GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service
STR Profile Report

Sample Submitted By:	Dr. Xudong Song Capital Medical University
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Sales Order:	220513B
Cell Line Designation:	SRA 01/04
Date Sample Received:	May 13th, 2022
Report Date:	May 16th, 2022

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® 3130 XL Genetic Analyzer. Data were analyzed using GeneMapper® ID v3.2 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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NOTE: According to the recommendations of *IJC* on cell line authentication, the report is valid for 3 years since the issue date.

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Sales Order: 220513B

	Test Results for Submitted Sample			DSMZ Reference Database Profile		
Loci	**Query Profile:** SRA 01/04			**Database Profile:** SRA 01/04		
Amelogenin	X	Y		X	Y	
D3S1358	14	15				
D13S317	10			10		
D7S820	10	11	13	10	11	13
D16S539	10			10		
Penta E	7	21				
TPOX	8			8		
TH01	6	7		6	7	
D2S1338	23	24				
CSF1PO	11	13	15	11	13	15
Penta D	9	12	13			
D19S433	14					
vWA	17	20		17	20	
D21S11	27	28	31			
D18S51	13					
D6S1043	11	16				
D8S1179	14	15				
D5S818	11	12	13	11	12	13
D12S391	19	22				
FGA	19	22.2				

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 In order to protect the identity of the donor, ***please do not publish*** *the allele calls from all the STR loci tested. The sample match is based on the reference data available at the time of comparison.*

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): SRA 01/04
- ☐ The submitted profile is similar to the following DSMZ human cell line(s):

e-Signature, Technician: Digitally signed by Xuekun Chen
DN: cn=Xuekun Chen, o=Genetic Testing Biotechnology (Suzhou), ou=DNA Typing Section, email=order@jsdna.org, c=CN
Date: 2022.05.16 15:51:48 +08'00'

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Date: 2022.05.16 15:54:40 +08'00'

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

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