

Cell Line Authentication Service STR Profile Report

Sample Submitted By: Dr. Jiaxiang Ye
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Sales Order: 200603A
Cell Line Designation: SUNE1
Date Sample Received: Jun 3th, 2020
Report Date: Jun 4th, 2020

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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Test Results for Submitted Sample		DSMZ Reference Database Profile	
Loci	Query Profile: SUNE1	Database Profile: NA	
Amelogenin	X		
D3S1358	15 18		
D13S317	10 12 13.3		
D7S820	10		
D16S539	9 10		
Penta E	17		
TPOX	8 9 12		
TH01	7 9		
D2S1338	17 23		
CSF1PO	10 11		
Penta D	9 12		
D19S433	13		
vWA	14 16		
D21S11	27 30		
D18S51	13 16		
D6S1043	11 14 18		
D8S1179	12		
D5S818	11 12		
D12S391	21		
FGA	21		

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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 $\geq 80\%$ 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 STR profiles indicate that the submitted cells are mixtures of more than one cell lines, at least including HeLa.
- ☐ 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:



e-Signature Reviewer:



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

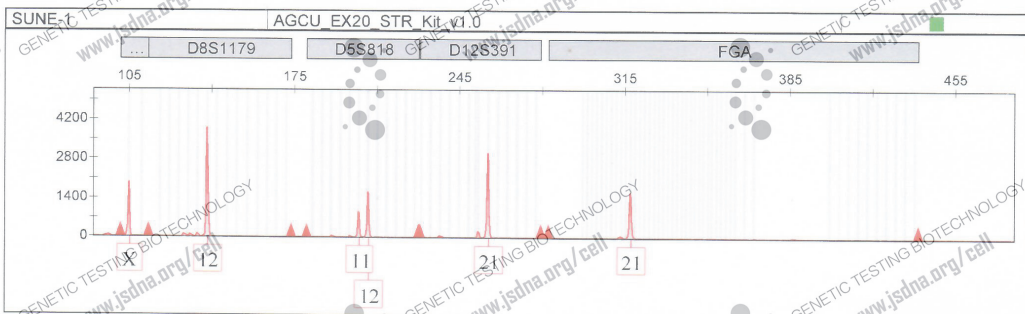
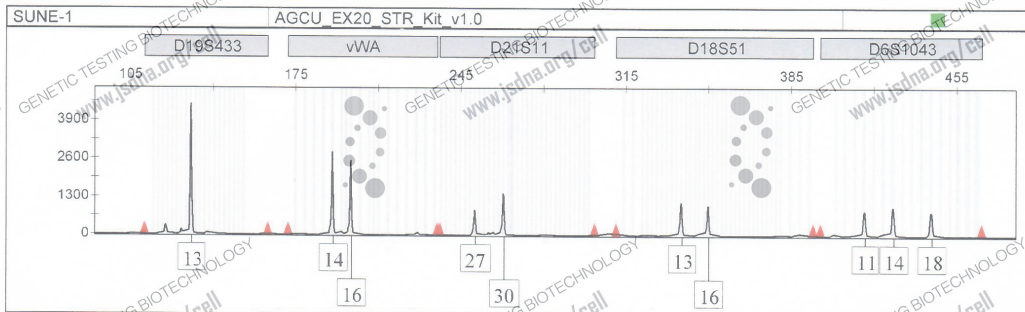
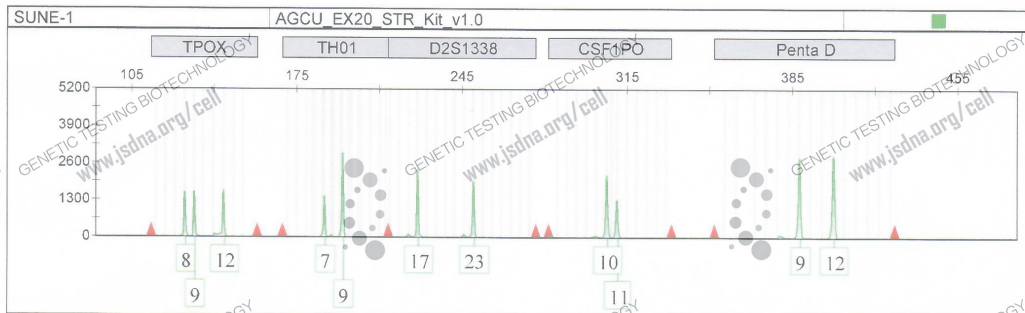
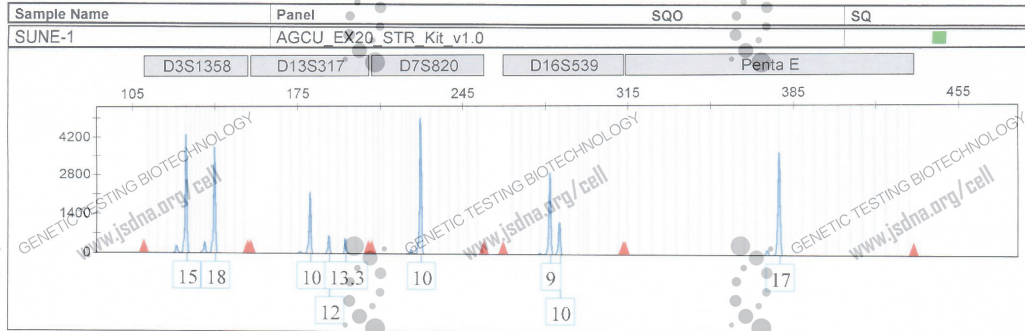


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Applied Biosystems
GeneMapper ID v3.2

200604



Thu Jun 04, 2020 03:02PM, CST

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