



Cell Line Authentication Service

STR Profile Report

Sample Submitted By: Dr. Haiwei Yang
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Sales Order: 180407D

Cell Line Designation: 5637

Date Sample Received: Apr 7th, 2018

Report Date: Apr 8th, 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.

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Test Results for Submitted Sample			DSMZ Reference Database Profile	
Loci	Query Profile: 5637		Database Profile: 5637	
Amelogenin	X		X	Y
D3S1358	15	17		
D13S317	11		11	
D7S820	10	11	10	11
D16S539	9		9	
Penta E	10	12		
TPOX	8		8	9
TH01	7	9	7	9
D2S1338	25			
CSF1PO	11		11	
Penta D	11			
D19S433	13	15		
vWA	18		18	
D21S11	36			
D18S51	16	18		
D6S1043	16	20		
D8S1179	10	16		
D5S818	11	12	11	12
D12S391	20			
FGA	22			

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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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): 5637 (89% match)

e-Signature Technician:



e-Signature Reviewer:



More information

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



Cell Line Authentication Service

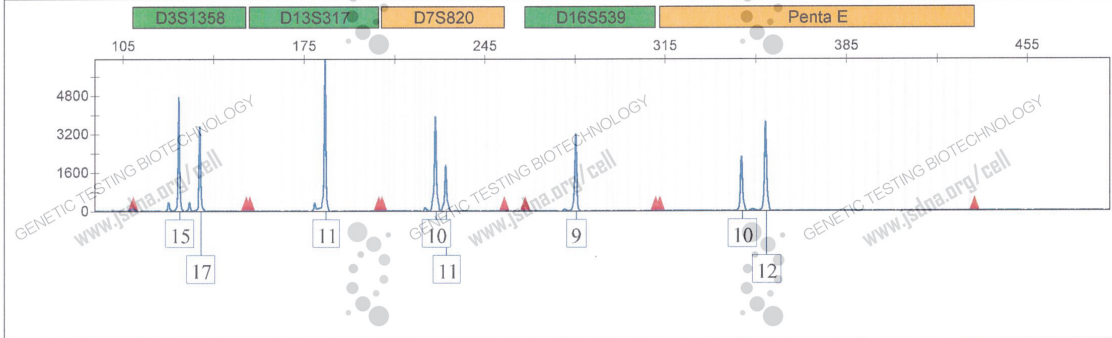
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Applied Biosystems
GeneMapper® ID-X 1.4

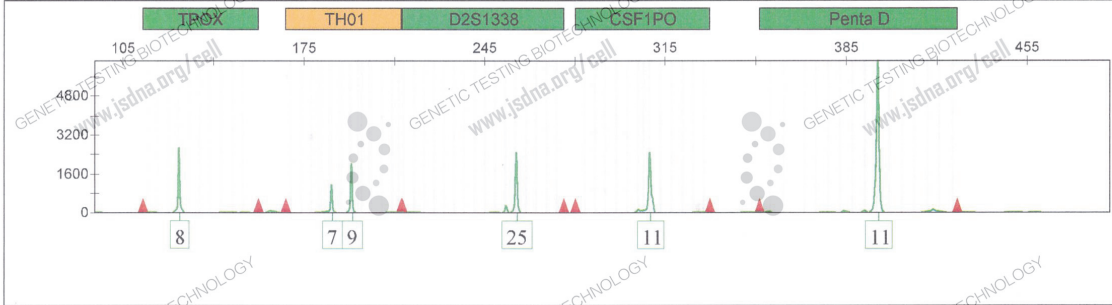
Project: 180408

Sample Name

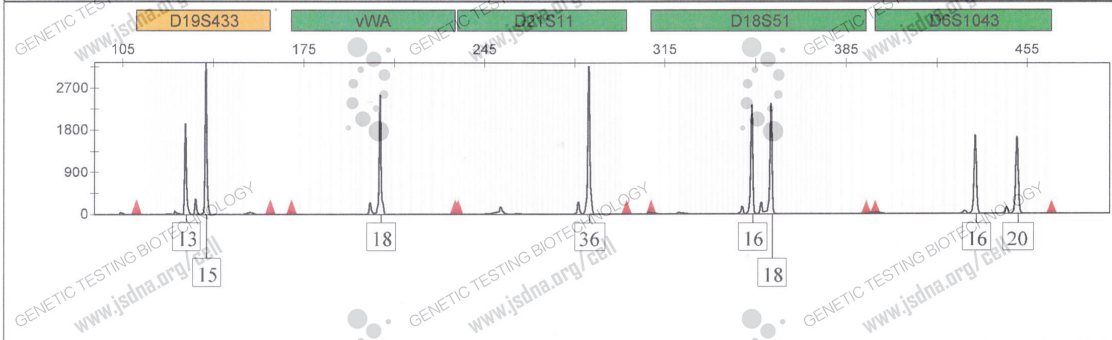
5637



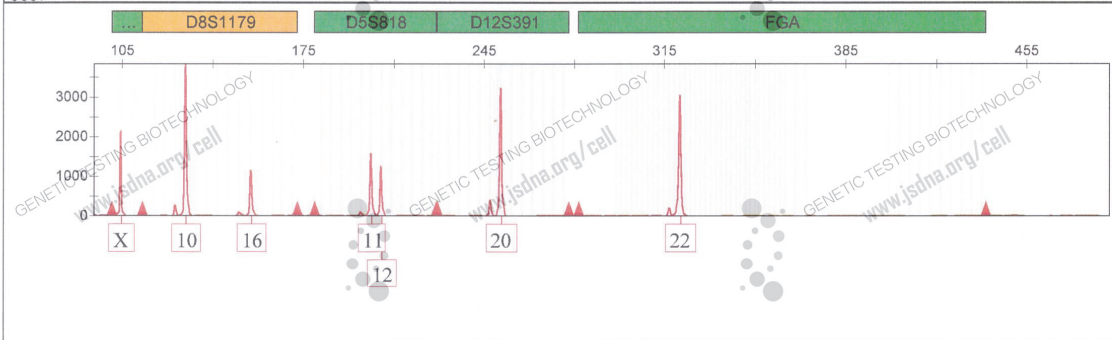
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