

Cell Line Authentication Service STR Profile Report

Sample Submitted By: Dr. Weilin Wang
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Sales Order: 180905M
Cell Line Designation: HEP-G2
Date Sample Received: Sep 5th, 2018
Report Date: Sep 6th, 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® 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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Test Results for Submitted Sample			DSMZ Reference Database Profile	
Loci	Query Profile: HEP-G2		Database Profile: HEP-G2	
Amelogenin	X	Y	X	Y
D3S1358	15	16		
D13S317	9	13	9	13
D7S820	10		10	
D16S539	12	13	12	13
Penta E	15	20		
TPOX	8	9	8	9
TH01	9		9	
D2S1338	19	20		
CSF1PO	10	11	10	11
Penta D	9	13		
D19S433	15.2			
vWA	17		17	
D21S11	29	30 31		
D18S51	13	14		
D6S1043	13			
D8S1179	15	16		
D5S818	11	12	11	12
D12S391	21	25		
FGA	22	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 In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.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 $\geq 80\%$ 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 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): HEP-G2
- ☐ The submitted profile is similar to the following DSMZ human cell line(s):

e-Signature Technician:



e-Signature Reviewer:



More information

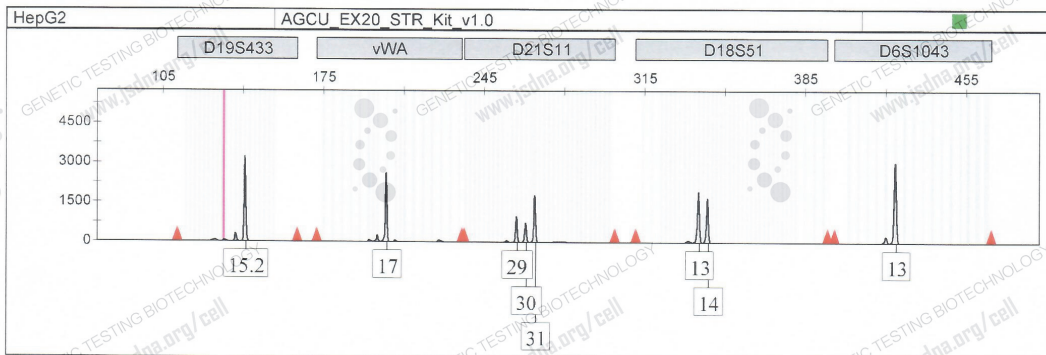
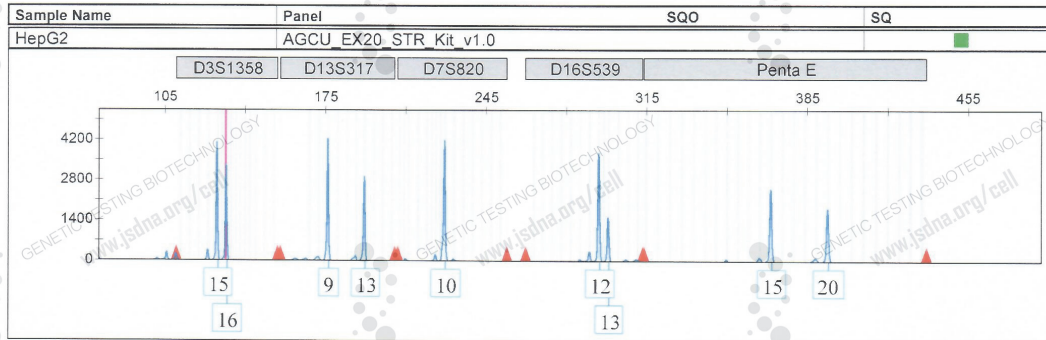
Addendum: Electropherogram for the customer's sample set 1 of 1



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Applied
Biosystems
GeneMapper ID v3.2

180906



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