GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service

STR Profile Report

Sample Submitted By:	Dr. Shixiu Wu Hangzhou Cancer Hospital
Email Address:	xiaoyan_1984520@163.com
Sales Order:	170307E
Cell Line Designation:	HCT116
Date Sample Received:	Mar 7th, 2017
Report Date:	Mar 9th, 2017

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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Sales Order: 170307E

Test Results for Submitted Sample				DSMZ Reference Database Profile	
Loci	**Query Profile:** HCT116			**Database Profile:** HCT116	
Amelogenin	X	Y		X	Y
D3S1358	12	18	19		
D13S317	10	12		10	12
D7S820	11	12		11	12
D16S539	11	13		11	13
Penta E	13	14			
TPOX	8			8	9
TH01	8	9		8	9
D2S1338	16				
CSF1PO	7	10		7	10
Penta D	9	13			
D19S433	12	13			
vWA	17	22		17	22
D21S11	29	30			
D18S51	16	17			
D6S1043	13	14			
D8S1179	12	14			
D5S818	10	11		10	11
D12S391	17	21			
FGA	18	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 In order to protect the identity of the donor, ***please do not publish*** *the allele calls from all the STR loci tested.*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):
- ☑ The submitted profile is similar to the following DSMZ human cell line(s): HCT116 (94% match)

e-Signature, Technician:
数字签名者：Faye Wong
DN：cn=Faye Wong, o=Genetic Testing Biotechnology Corporation (Suzhou), ou=DNA Typing Section, email=str_service@163.com, c=CN
日期：2017.03.09 17:34:00 +08'00'

e-Signature, Reviewer:
数字签名者：Alan Cui
DN：cn=Alan Cui, o=Genetic Testing Biotechnology Corporation (Suzhou), ou=Supervision Section, email=str_order@163.com, c=CN
日期：2017.03.09 17:36:00 +08'00'

More information

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

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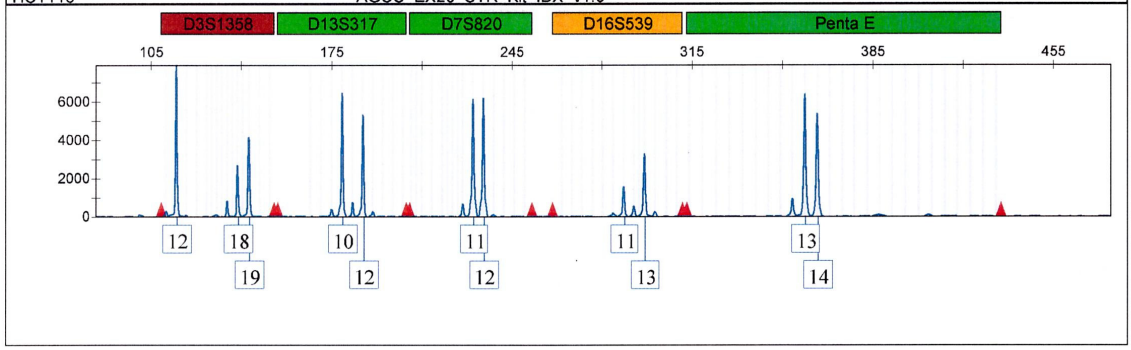
STR Profile Report

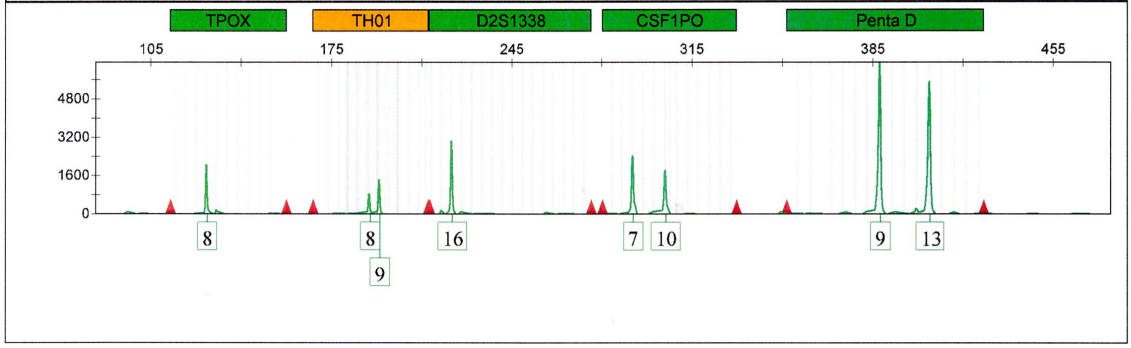
Applied Biosystems
GeneMapper® ID-X 1.4

Project: 170309

Sample Name	Panel	SQO
HCT116	AGCU_EX20_STR_Kit_IDX_v1.0	



HCT116 AGCU_EX20_STR_Kit_IDX_v1.0



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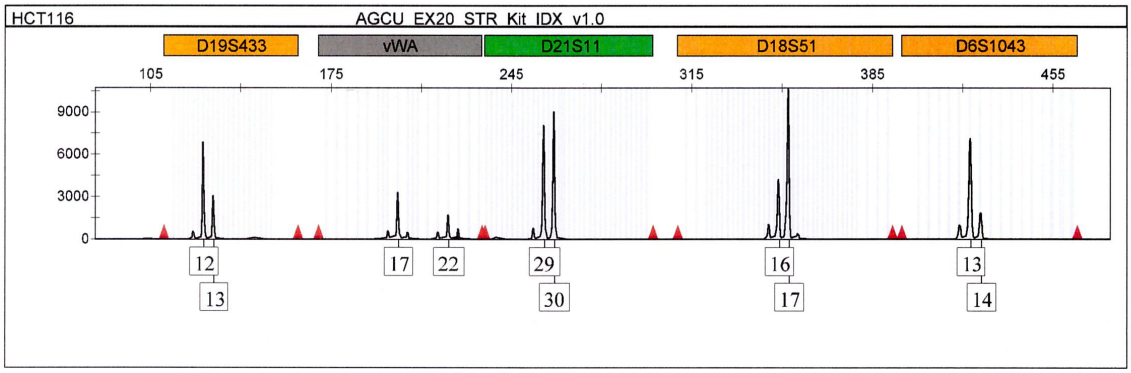

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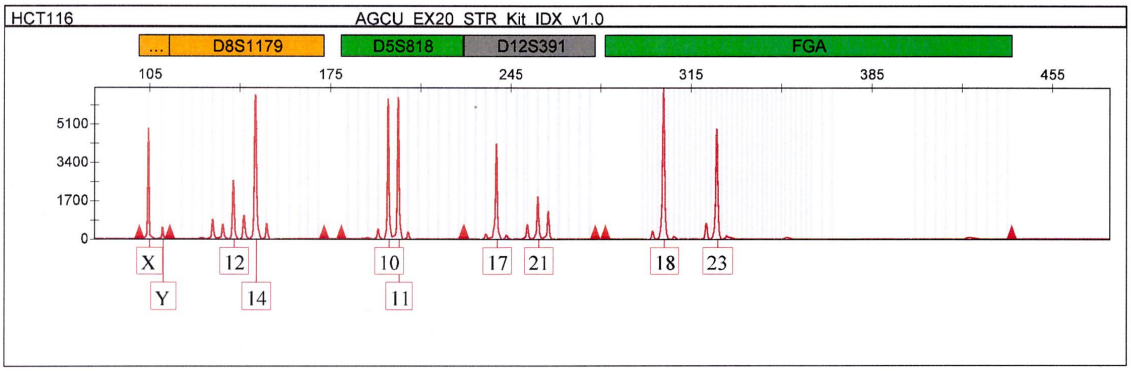

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