GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service

STR Profile Report

Sample Submitted By:	Dr. Ping Wang Tianjin Medical University Cancer Institute and Hospital
Email Address:	wangping@tjmuch.com
Sales Order:	170408B
Cell Line Designation:	A549
Date Sample Received:	Apr 8th, 2017
Report Date:	Apr 10th, 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: 170408B

Test Results for Submitted Sample				DSMZ Reference Database Profile	
Loci	**Query Profile:** A549			**Database Profile:** A549	
Amelogenin	X	Y		X	Y
D3S1358	16				
D13S317	11			11	
D7S820	8	11		8	11
D16S539	11	12	*13*	11	12
Penta E	7	11			
TPOX	8	11		8	11
TH01	8	9.3		8	9.3
D2S1338	24				
CSF1PO	10	12		10	12
Penta D	9				
D19S433	13				
vWA	14			14	
D21S11	29				
D18S51	14	17			
D6S1043	11	13			
D8S1179	13	14			
D5S818	11			11	
D12S391	18	19			
FGA	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 In order to protect the identity of the donor, ***please do not publish*** *the allele calls from all the STR loci tested.*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): A549 (97% 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：2017.04.10 15:35:23 +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：2017.04.10 15:37:23 +08'00'

More information

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

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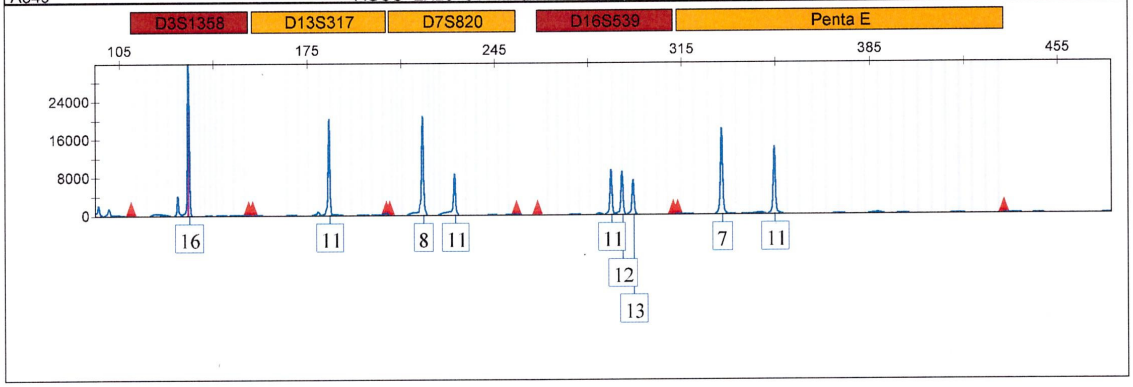
STR Profile Report

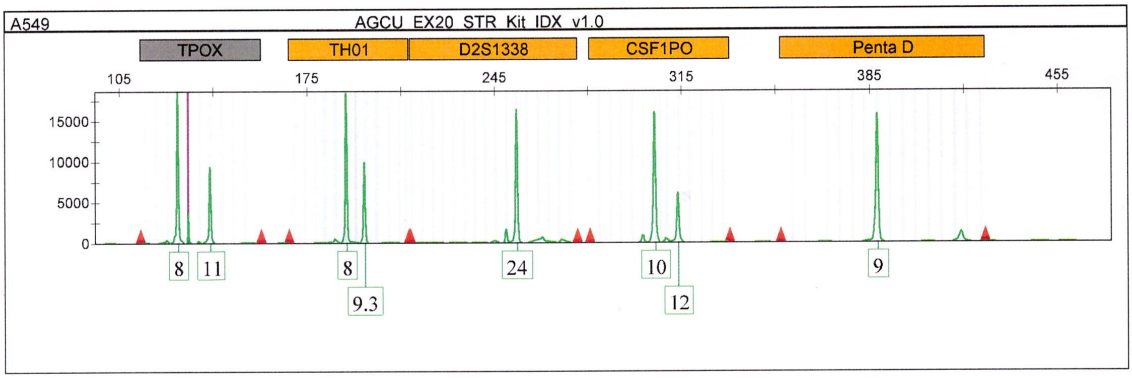
Applied Biosystems
GeneMapper® ID-X 1.4

Project: 170410

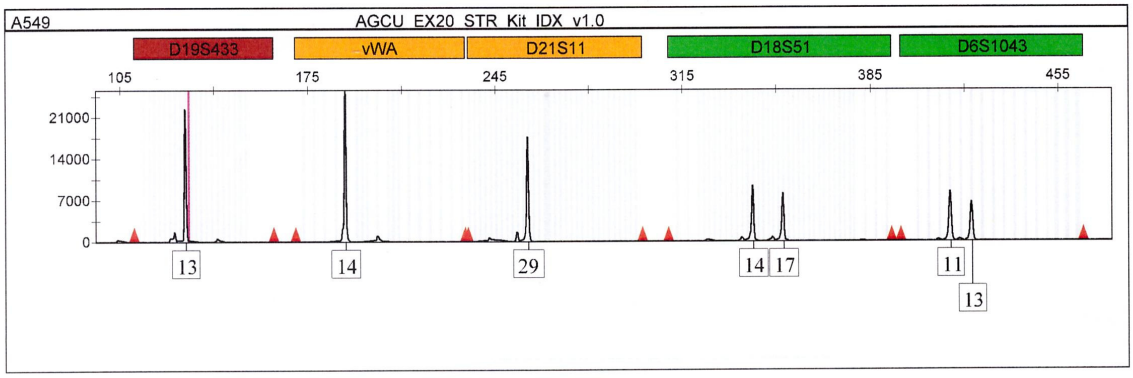
Sample Name	Panel	SQO
A549	AGCU_EX20_STR_Kit_IDX_v1.0	



A549 AGCU_EX20_STR_Kit_IDX_v1.0



A549 AGCU_EX20_STR_Kit_IDX_v1.0



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Cell Line Authentication Service

STR Profile Report

Applied Biosystems
GeneMapper® ID-X 1.4

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Sample Name	Panel	SQO
A549	AGCU_EX20_STR_Kit_IDX_v1.0