GENETIC TESTING BIOTECHNOLOGY

Cell Line Authentication Service

STR Profile Report

Sample Submitted By:	Dr. Ying Wang The Affiliated Hospital of Nantong University
Email Address:	wangyingeye@126.com
Sales Order:	160408A
Cell Line Designation:	ARPE-19
Date Sample Received:	Apr 8th, 2016
Report Date:	Apr 11th, 2016

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 v1.2 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.

Technical Questions?
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Test Results for Submitted Sample			ATCC Reference Database Profile	
Loci	**Query Profile:** ARPE-19		**Database Profile:** ARPE-19	
Amelogenin	X	Y	X	Y
D3S1358	14	15		
D13S317	11	12	11	12
D7S820	9	11	9	11
D16S539	9	11	9	11
Penta E	7	11		
TPOX	9	11	9	11
TH01	6	9.3	6	9.3
D2S1338	19			
CSF1PO	11		11	
Penta D	11	13		
D19S433	12	13		
vWA	16	19	16	19
D21S11	28	29		
D18S51	12	16		
D6S1043	17	19		
D8S1179	13			
D5S818	13		13	
D12S391	21	22		
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 In order to protect the identity of the donor, ***please do not publish*** *the allele calls from all the STR loci tested.*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 ATCC STR database.
- ☑ The submitted profile is an exact match for the following ATCC human cell line(s) in the ATCC STR database (8 core loci plus Amelogenin): ARPE-19 (CRL-2302)
- ☐ The submitted profile is similar to the following ATCC human cell line(s):

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：2016.04.11 18:22:49 +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：2016.04.11 18:23:07 +08'00'

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

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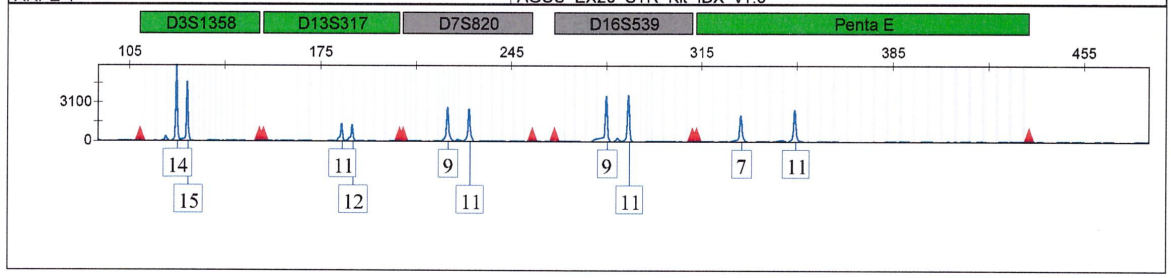
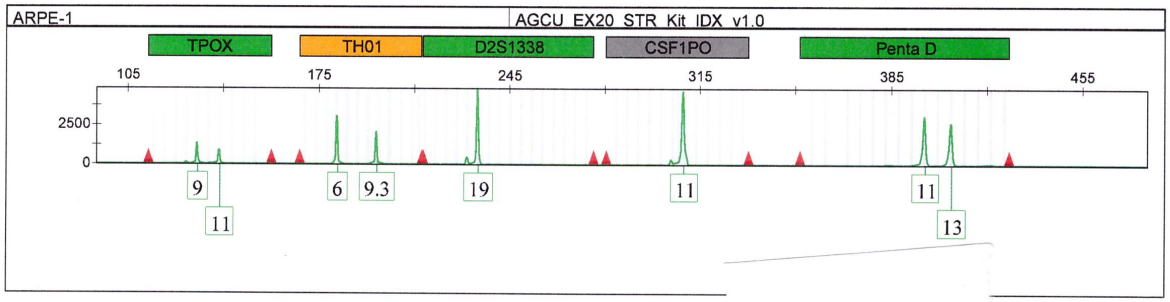
Applied Biosystems
GeneMapper® ID-X 1.4

Project: 20160411

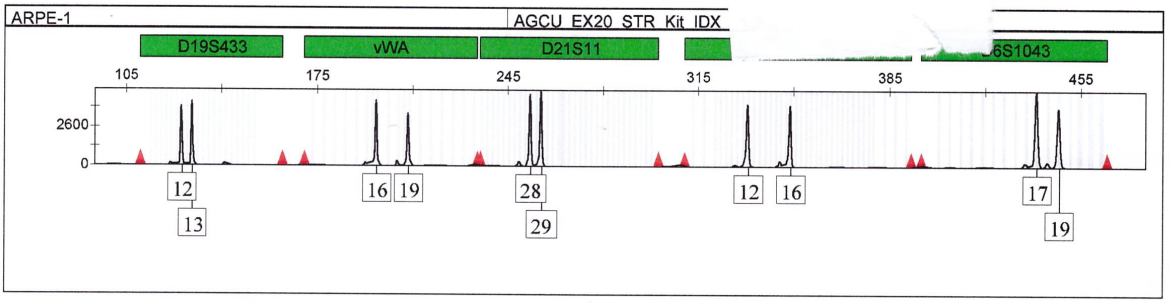
Sample Name	Panel
ARPE-1	AGCU_EX20_STR_Kit_IDX_v1.0



ARPE-1 AGCU_EX20_STR_Kit_IDX_v1.0



ARPE-1 AGCU_EX20_STR_Kit_IDX



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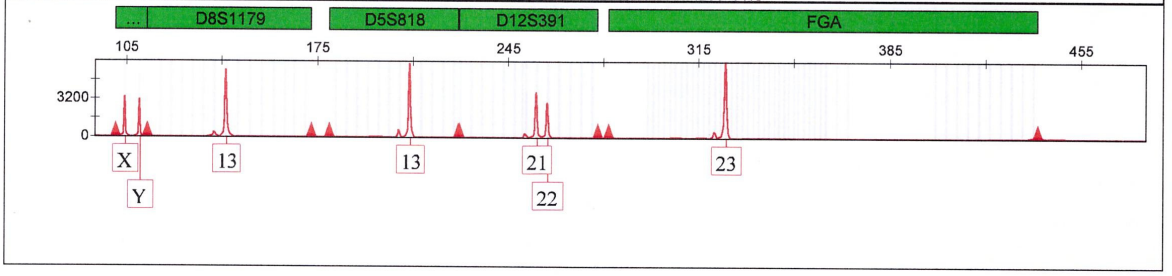

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