

Cell line Authentication Report

Customer Information

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Sample Information

Sample No.	Sample name	Sample type	Reference profile
1	ARPE-19	Cell pellet	CRL-2302
2			
3			
4			
5			
6			
7			
8			
9			
10			
STP Profiling Workfl	A W		

STR Profiling Workflow



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 Reid et al., Authentication of Human Cell Lines by STR DNA Profiling Analysis. Assay Guidance Manual [Internet], 2013 May 1 published by NCBI. The match criterion is based on an algorithm that compares the number of shared alleles between the reference and sample profile.

% Match =	Number of shared alleles
% Match =	Total number of alleles in the reference database profile

* Homozygous alleles are counted as one allele

Lowest % Match	Lowest % Match Result interpretation	
≥ 80%	This result is consistent with the two samples being related (same donor)	
56-79%	This result is indeterminant and may need further testing	
\leq 55%	This result is consistent with the two samples being unrelated (different donors)	

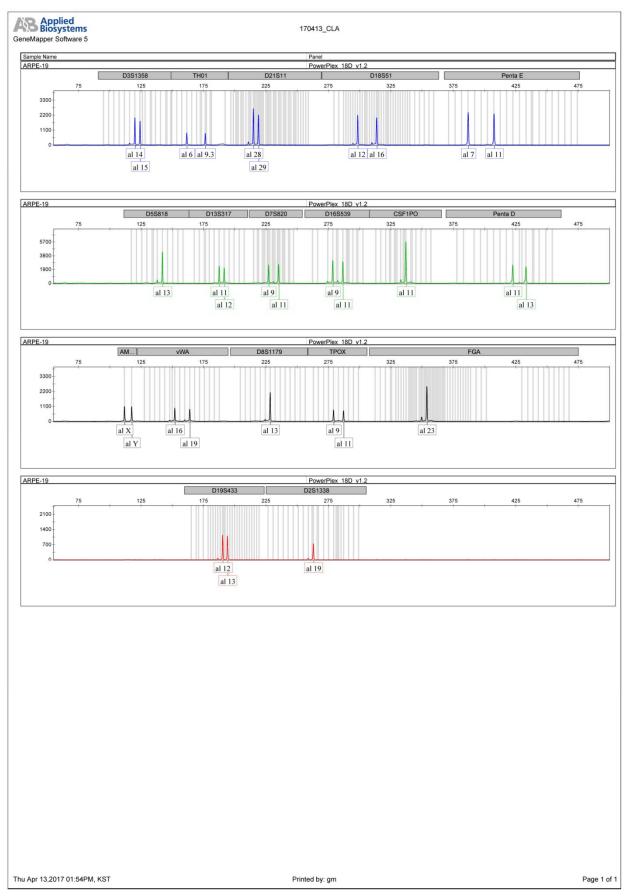


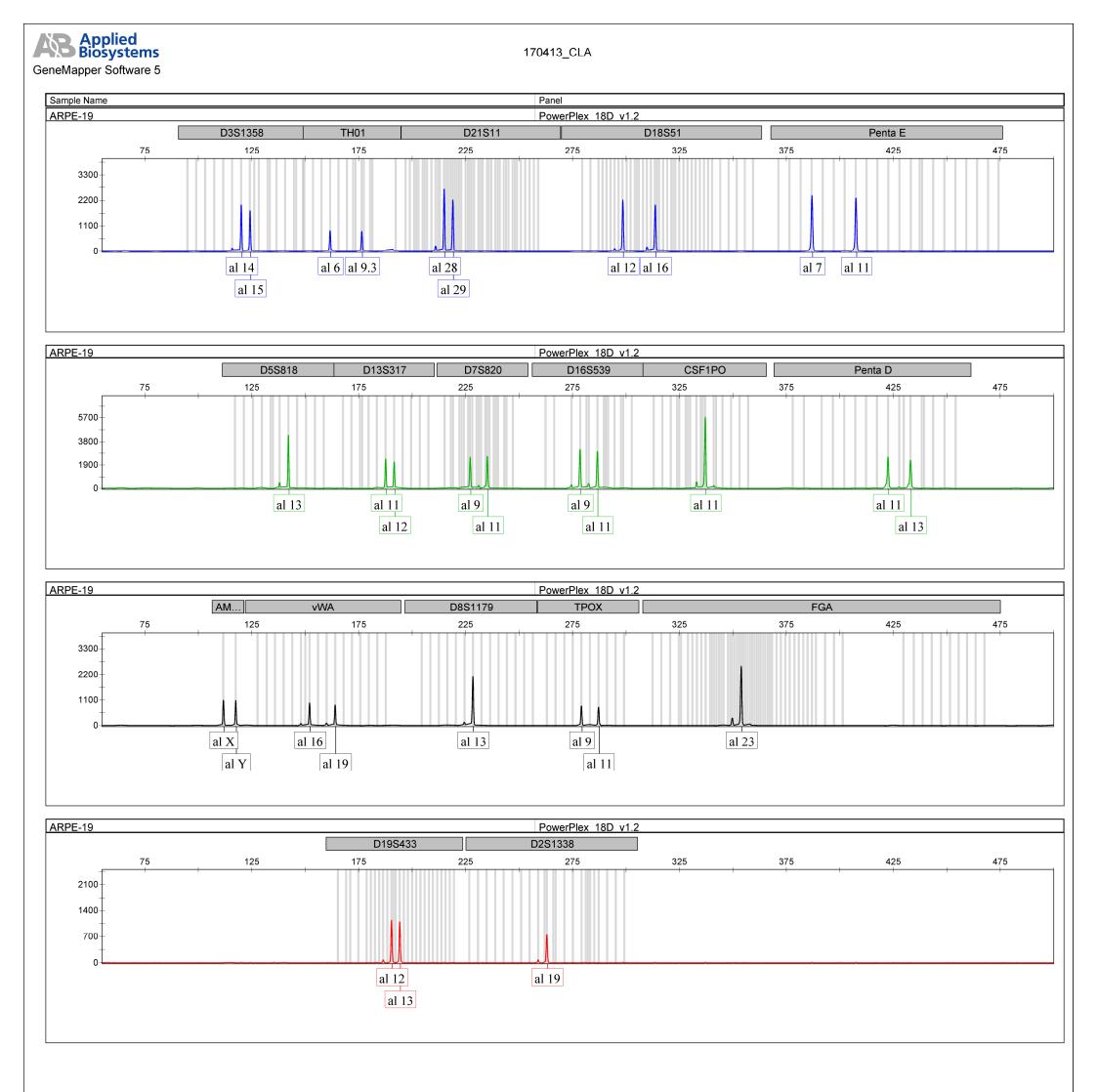
Sample No. 1 Match Analysis

	Reference Databas	e Profile Sa	ample Profile	Ok and dellate a #
Locus	Database : ARPE-19 (ATC	C CRL-2302) Sample Nam	e : ARPE-19	Shared alleles #
D5S818	13	13		1
D13S317	11 12	11	12	2
D7S820	9 11	9	11	2
D16S539	9 11	9	11	2
vWA	16 19	16	19	2
TH01	6 9.3	6 9	9.3	2
ТРОХ	9 11	9	11	2
CSF1PO	11	11		1
AMEL	X Y	X	Y	2
D3S1358		14	15	-
D21S11		28 2	29	-
D18S51		12	16	-
D8S1179		13		-
FGA		23		-
D2S1338		19		-
D19S433		12	13	-
Penta D		11	13	-
Penta E		7	11	-
Number of shared alleles				16
Total number of alleles in the reference database profile				16
% match				100.0%
Result interpretation				Related



Sample No. 1 Electropherogram





Thu Apr 13,2017 01:54PM, KST