



Test Results for Submitted Sample				ATCC Reference Database Profile			
Loci	Query Profile: ARPE-19			Database Profile: ARPE-19			
D3S1358	14	15					
TH01	6	9.3		6	9.3		
D21S11	28	29					
D18S51	12	16					
Penta_E	7	11					
D5S818	13			13			
D13S317	11	12		11	12		
D7S820	9	11		9	11		
D16S539	9	11		9	11		
CSF1PO	11			11			
Penta_D	11	13					
Amelogenin	X	Y		X	Y		
vWA	16	19		16	19		
D8S1179	13						
TPOX	9	11		9	11		
FGA	23						
D19S433	12	13					
D2S1338	19						
Number of shared alleles between query sample and database profile:							16
Total number of alleles in the database profile:							16
Percent match between the submitted sample and the database profile:							100
<i>The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.</i>							
<b>NOTE:</b> 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, <b>please do not publish</b> the allele calls from all the STR loci tested. Electropherograms showing raw data are attached.							

**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 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): CRL-2302 (ARPE-19)
- The submitted profile is similar to the following ATCC human cell line(s):

**Additional Comments:**

Submitted sample (STR14311 (ARPE-19)), is an exact match to ATCC cell line CRL-2302 (ARPE-19).

e-Signature, Technician:	jgarnett 11/14/13
e-Signature, Reviewer:	kkindig 11/14/13

