

**Cell Line STR Validation Analysis**

Case Number: CL131198

Institute	Researcher Name	Cell Line ID	Date Received	Date Analyzed
NEI/NIH/LMDB	Preeti Subramanian	CL131198ID1 (ARPE-19)	11/14/13	11/18/13

**Results:**

Database Match Result(s)				
	Designation	Cell Number	% Match	Database
1	ARPE-19	CRL-2302	100	DSMZ
2	ARPE-19/HPV-16	CRL-2502	100	DSMZ

Table 1

System	Allele(s) CL131198ID1 (ARPE-19)	Allele(s) ARPE-19 (CRL-2302)	Comparison
D8S1179	13,13	N/A	---
D21S11	28,29	N/A	---
D7S820	9,11	9,11	Match
CSF1PO	11,11	11,11	Match
D3S1358	14,15	N/A	---
TH01	6,9.3	6,9.3	Match
D13S317	11,12	11,12	Match
D16S539	9,11	9,11	Match
D2S1338	19,19	N/A	---
D19S433	12,13	N/A	---
Vwa	16,19	16,19	Match
TPOX	9,11	9,11	Match
D18S51	12,16	N/A	---
AMEL	X,Y	X,Y	Match
D5S818	13,13	13,13	Match
FGA	23,23	N/A	---

**Conclusion:**

The DNA profile obtained from item CL131198ID1 (ARPE-19) is compiled in Table 1.

The DNA profile obtained from item CL131198ID1 (ARPE-19) yielded a maximum of two alleles per locus, and the AMEL locus was detected on both the X and Y chromosomes. Therefore, it can be concluded that the DNA of this cell line most likely originated from a single, male individual. **No contamination by another human cell line was detected.** There are **TWO Exact MATCHES** after searching ATCC, JCRB or DSMZ databases; the cell line names and alleles are shown in the table.



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BIO-SYNTHESIS, INCORPORATED and the DNA IDENTITY TESTING LABORATORY expressly disclaim any and all responsibility for the validity of this report. The collection of samples from the named cell lines was not witnessed, nor identities verified in compliance with established chain of custody guidelines. Therefore, the results of this test should not be considered legally valid.

Deoxyribonucleic acid (DNA) was extracted and genetic loci were amplified from samples provided to the DNA Identity Testing Laboratory of Bio-synthesis, Inc. the conclusion has been verified as true and correct relative to the DNA profiles presented herein and the biographical data provided by the customer.

A handwritten signature in black ink, appearing to read "Xiaoyun Liu", written over a horizontal line.

Xiaoyun Liu, Ph.D.  
Associate Director  
11/18/2013

Sworn and Subscribed before me this  
18<sup>th</sup> day of November, 2013

A handwritten signature in black ink, appearing to read "Heidi Fazeli", written over a horizontal line.

Notary Public, State of Texas

