STR Authentication Report For Cell Line

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1. Cell Name: ARPE-19

2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 21- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer.

3. Sample gene genotype analysis result:

Genotype analysis results of STR and Amelogenin loci in cells						
STR Loci	STR profile for Sample cell			STR profile for Cell Bank cell		
	Cell name: ARPE-19			Cell name: ARPE-19		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	13	13		13	13	
D13S317	11	12		11	12	
D7S820	9	11		9	11	
D16S539	9	11		9	11	
VWA	16	19		16	19	
TH01	6	9.3		6	9.3	
AMEL	X	Y		X	Y	
TPOX	9	11		9	11	
CSF1PO	11	11		11	11	
D12S391	21	22				
FGA	23	23				
D2S1338	19	19				
D21S11	28	29				
D18S51	12	16				
D8S1179	13	13				

D3S1358	14	15				
D6S1043	17	19				
PENTAE	7	11				
D19S433	12	13				
PENTAD	11	13				
D1S1656	11	15				

4. Conclusion: The STR results of **ARPE-19** cells are consistent with the genotypes of **ARPE-19** cell lines in **DSMZ** database, the cell ID corresponded to **CRL-2302** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

5. Attached Image

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