

SHANGHAI BIOWING APPLIED BIOTECHNOLOGY Co. LTD

Cell Line Authentication – STR Profiling

Sample Type: Cell Line

Sample from: Eye Hospital of China, Academy of Chinese Medicine Science

Report Time: March 13, 2017

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Cell Line Authentication – STR Profiling Report

Sample code

Table 1. Sample Code

Customer's code	Company Code
129	20170221-11

Sample Number:1

Sample Type: Cell line

Testing Type: STR

Sample From: Eye Hospital of China, Academy of Chinese Medicine Science.

Testing Method: STR Genotyping

Testing Method:

DNA was extracted by a commercial kit from CORNING (AP-EMN-BL-GDNA-250G). The twenty STRs including Amelogenin locus were amplified by six multiplex PCR and separated on ABI 3730XL Genetic Analyzer. The signals were then analyzed by the software GeneMapper.

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.

Test Results:

1. Result

Table 2. Matching information on the cell lines

Sample Code	Multi-allele	Cell line matched	Cell Bank	EV	Percentage
20170221-11	No	ARPE-19, et.	DSMZ	1	9/9

● Multi-allele means some STR contain more than two loci.

2. Sample Description

20170221-11: The DNA of the cell lines found to perfect match the type of cell lines in a cell line retrieval, DSMZ database shows that cells called **ARPE-19,et.** corresponding to the cell number **CRL-2302,et.**No multiple alleles were found in this cell line.

3. Genotyping Result

Table 3. STR and Amelogenin Genotyping Results of Cell line 20170221-11

Marker	Sample				Cell Bank information		
	Allele1	Allele2	Allele3	Allele4	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					

Others:

1. Genotyping Strategy and Site Distribution

Attached Table. Experimental Strategy and Sites

	Strategy 1	Strategy 2	Strategy 3	Strategy 4	Strategy 5	Strategy 6
1	TH01	AMEL	TPOX	D3S1358	PENTAE	D19S433
2	D12S391	D5S818	VWA	D13S317		PENTAD
3	D7S820	D2S1338	D8S1179	D6S1043		
4	CSF1PO	D21S11		D16S539		
5	FGA	D18S51				

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

2. DSMZ tools was used to carry on the cell line comparison, which contains 2455 cell lines STR data from ATCC, DSMZ, JCRB ,ECACC, GNE and RIKEN databases. If the cell is not included in the above cell library, users need to compared with other databases.
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