

# Cell Line Authentication Report

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## 1. Sample information:

Sample No.: "AD293"

## 2. Methods:

- Genomic DNA was extracted from the cell pellets provided by the customer.
- Samples, together with positive and negative control were amplified using GenePrint System (Promega).
- Amplified products were processed using the ABI3730xl Genetic Analyzer.
- Data was analyzed by GeneMapper4.0 software and then compared with the ATCC, DSMZ or JCRB databases for reference matching.

## 3. Results:

STR profile

Marker	Sample				Database		
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
D5S818	8	8			8	8	
D13S317	12	14			12	14	
D7S820	11	11			11	11	
D16S539	9	13			9	13	
VWA	16	19			16	19	
TH01	7	9.3			7	9.3	
AMEL	X	X			X	X	
TPOX	11	11			11	11	
CSF1PO	12	12			12	12	
D12S391	19	21					
FGA	23	23					
D2S1338	19	19					
D21S11	30.2	30.2					
D18S51	17	17					
D8S1179	12	14					
D3S1358	15	17					
D6S1043	11	11					
PENTAE	7	15					
D19S433	15	18					
PENTAD	9	9					
D1S1656	15	17.3					

## 4. Conclusion

A. The STR results show that there are no four alleles on the main nine locus, there is certainly no cross contamination of human cells in this cell line.

B. The match percent between the sample and the STR database profile is from 90-100 %, which belongs to the derivative cells of HEK293.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
		<i>Query (Your Cell)</i>	8,8	12,14	11,11	9,13	16,19	7,9,3	X,X	11,11	12,12
1.0(36/36)	CVCL_RY64	293_hEcad	[8', '8']	[12', '14']	[11', '11']	[9', '13']	[16', '19']	[7', '9,3]	[X', 'X']	[11', '11']	[12', '12']
1.0(36/36)	CVCL_RY63	293_hSyn2	[8', '8']	[12', '14']	[11', '11']	[9', '13']	[16', '19']	[7', '9,3]	[X', 'X']	[11', '11']	[12', '12']
1.0(36/36)	CVCL_VN83	HEK293 rLN10_hEcad	[8', '8']	[12', '14']	[11', '11']	[9', '13']	[16', '19']	[7', '9,3]	[X', 'X']	[11', '11']	[12', '12']
1.0(36/36)	CVCL_RY72	293_hSyn1	[8', '8']	[12', '14']	[11', '11']	[9', '13']	[16', '19']	[7', '9,3]	[X', 'X']	[11', '11']	[12', '12']
1.0(36/36)	CVCL_RY68	293_hSyn4	[8', '8']	[12', '14']	[11', '11']	[9', '13']	[16', '19']	[7', '9,3]	[X', 'X']	[11', '11']	[12', '12']
1.0(36/36)	CVCL_RY62	293_hEcad/hSyn2	[8', '8']	[12', '14']	[11', '11']	[9', '13']	[16', '19']	[7', '9,3]	[X', 'X']	[11', '11']	[12', '12']

### Note:

1. The STR profile data was compared with the ATCC, DSMZ or JCRB databases, if the cell line is not included in the three institutions, the results are not correct. More information you provided would be useful for Cell Line Authentication.
2. Based on the ANSI Standard, cell lines with 100% match are considered to be “identical”; cell lines with  $\geq 80\%$  but less than 100% match are considered to be “related”.

Operator: Xiaomei Liu, Qin Wang

Leader: Wei Zhou

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