

Cell Line Authentication Report

Institution: Cobioer Biosciences CO.,LTD

Customer: Taohua Jiang

Tel: 025-86880024

Email: jiangtaohua@cobioer.com

Vendor: Cobioer Biosciences CO.,LTD

Attention: Taohua Jiang

Tel: 025-86880024

Email: jiangtaohua@cobioer.com

1. Sample information:

Sample No.: “HEC-1-A”

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
Amelogenin	X	X			X	X	
D5S818	11	15			11	15	
D13S317	11	11			11	11	
D7S820	9	11			9	11	
D16S539	12	12			12	12	
vWA	18	19			18	19	
TH01	6	7			6	7	
TPOX	8	11			8	11	
CSF1PO	10	12			10	12	
D19S433	13	13					
D21S11	30	31					
D18S51	16	21					
D6S1043	12	18					
D3S1358	15	15					
Penta D	9	12	13				
D2S441	11	13					
D8S1179	13	14					
Penta E	11	11					
D12S391	19	19					
D2S1338	18	19					
FGA	21	22					

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 **100%**, the cell name is **HEC-1-A**.

Accession	Name	N° Markers	Score	Allele	CSF1PO	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D19S433	D21S11	FGA	Penta D	Penta E	TH01	TPO	vWA
NA	Query	NA	NA	x,x	10,12			11,15	9,11		11,11	12,12							6,7	8,11	18,19
CVCL_0293.Best	HEC-1-A	8	100.00%	X	10,12	18,19	15	11,15	9,11	13,14	11	12	16,21	13	30,31	21,22	9,12	11	6,7	8,11	18,19

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

Date: 2025-03-22