

Cell Line Authentication Report

Institution: Cobioer Biosciences CO.,LTD Vendor: Cobioer Biosciences CO.,LTD

Customer: Taohua Jiang

Attention: Taohua Jiang

Tel: 025-86880024

Tel: 025-86880024

Email: jiangtaohua@cobioer.com

Email: jiangtaohua@cobioer.com

1. Sample information:

Sample No.: "HCC70"

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				Cobioer Database		
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
D5S818	12	13			12	13	
D13S317	12	12			12	12	
D7S820	10	11			10	11	
D16S539	9	13			9	13	
VWA	13	15			13	15	
TH01	9	9			9	9	
AMEL	X	X			X	X	
TPOX	9	10			9	10	
CSF1PO	10	14			10	14	
D12S391	15	19					
FGA	19.2	24					
D2S1338	23	25					
D21S11	30	30					
D18S51	13	16					
D8S1179	13	13					
D3S1358	16	17					
D6S1043	14	14					
PENTAE	9	16					
D19S433	12.2	15.2					
PENTAD	10	10					

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 HCC70.

Accession	Name	N° Markers	Score	Ame	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	10,14			12,13	10,11		12,12	9,13							9,9	9,10	13,15
CVCL_1270 Best	HCC70	8	100.00%	X	10,14	23,25	16	12,13	10,11	13	12	9,13	13,16	12,2,15,2	30	19,2,24	10	9,16	9	9,10	13,15

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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