

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.: “RKO”

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 were analyzed using 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	11	13			11	13	
D13S317	8	11			8	11	
D7S820	8	10			8	10	
D16S539	11	12	13		11	12	13
VWA	16	17	22		16	17	22
TH01	6	10			6	10	
AMEL	X	X			X	X	
TPOX	11	11			11	11	
CSF1PO	8	10			8	10	
D12S391	15	20					
FGA	20	21	22	23			
D2S1338	16	16					
D21S11	27	30					
D18S51	10	11	12				
D8S1179	8	9	13	14			
D3S1358	16	19					
D6S1043	14.1	19					
PENTAE	11	13					
D19S433	14	14					
PENTAD	10	11					
D1S1656	14	17.3					

4. Conclusion

- A. The STR results showed that there were no four alleles on the main nine locus, there is certainly no cross contamination of human cells in the cell line.
- B. The percent match between the sample and the STR database profile is 100%, the cell name is RKO.

Accession	Name	N° Markers	Score	Amel	CSF1PO	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D19S433	D21S11	FGA	Penta D	Penta E	TH01	TPOX	vWA
NA	Query	NA	NA	x,x	8,10		11,13	8,10		8,11	11,12,13								6,10	11,11	16,17,22
CVCL_0504 Best	RKO	8	100.00%	X	8,10	16	16,19	11,13	8,10	9,13,14	8,11	11,12,13	11,12	14	27,30	20,21,22,23	10,11	11,13	6,10	11	16,17,22

Note:

1. The STR profile data were compared with the ATCC, DSMZ or JCRB databases, if the cell line was not included in the three institutions, the results were not correct. More information you provide 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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