

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.: “SK-MEL-28”

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	13	13			11	13	
D13S317	11	12			11	12	
D7S820	9.3	10			9.3	10	
D16S539	9	12			9	12	
VWA	16	19			16	19	
TH01	7	7			7	7	
AMEL	X	Y			X	Y	
TPOX	8	12			8	12	
CSF1PO	10	12			10	12	
D12S391	15	19					
FGA	19	19					
D2S1338	18	18					
D21S11	28	29					
D18S51	12	16					
D8S1179	13	13					
D3S1358	16	18					
D6S1043	18	18					
PENTAE	8	12					
D19S433	14	14					
PENTAD	9	10					
D1S1656	12	12					

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 94%/100%, the cell name is SK-MEL-28.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
		<i>Query (Your Cell)</i>	13,13	11,12	9,3,10	9,12	16,19	7,7	X,Y	8,12	10,12
0.94(34/36)	CVCL_0526Worst	SK-MEL-28	[11', '13']	[11', '12]	[9.3', '10]	[9', '12]	[16', '19]	[7', '7]	[X', 'Y]	[8', '12]	[10', '12]

C. The D5S818 Loci with 13,13 was supported by the paper(CLS=300337; PubMed=19372543; PubMed=25877200).

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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