

Cell Line Authentication Report

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1. Sample information:

Sample No.: “SK-MEL-2”

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	12	13			11	12	13
D13S317	11	11			10	11	13
D7S820	11	12			11	12	
D16S539	8	9			8	9	
VWA	17	17			16	17	
TH01	9	9			9	9	
AMEL	X	Y			X	Y	
TPOX	8	9			8	9	
CSF1PO	10	12			10	12	
D12S391	18	18					
FGA	19	25					
D2S1338	21	23					
D21S11	29	30					
D18S51	15	16					
D8S1179	12	13					
D3S1358	14	16					
D6S1043	11	18					
PENTAE	7	16					
D19S433	12	15					
PENTAD	10	15					
D1S1656	13	17					

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 84%/100%, the cell name is SK-MEL-2.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
			12,13	11,11	11,12	8,9	17,17	9,9	x,y	8,9	10,12
0.84(32/38)	HTB-68	SK-MEL-2	11,12,13	10,11,13	11,12	8,9	16,17	9,9	X,Y	8,9	10,12

C. The D5S818 Loci with 12,13 was supported by the paper(Cosmic-CLP; PubMed=19372543; PubMed=25877200) , the D13S317 Loci with 11,11 was supported by the paper(Cosmic-CLP; PubMed=19372543; PubMed=25877200) and vWA Loci with 17,17 was supported by the paper(Cosmic-CLP; 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”.

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Leader: Wei Zhou

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