

Cell Line Authentication Report

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Customer: Taohua Jiang

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1. Sample information:

Sample No.: “SCC-4”

2. Methods:

- Genomic DNA was extracted from the cell pellets provided by the customer.
- Samples, together with positive and negative control were amplified by GenePrint System (Promega).
- Amplified products were processed by 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			13	13	
D13S317	11	13			11	13	
D7S820	9	11			9	11	
D16S539	12	12			12	12	
VWA	15	17			15	17	
TH01	9.3	9.3			9.3	9.3	
AMEL	X	Y			X	Y	
TPOX	8	8			8	8	
CSF1PO	11	11			11	11	
D12S391	17	22					
FGA	21	22					
D2S1338	16	24					
D21S11	32.2	32.2					
D18S51	15	15					
D8S1179	14	14					
D3S1358	18	18					
D6S1043	10	15					
PENTAE	14	14					
D19S433	12	14					

PENTAD	12	12					
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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 **SCC-4**.

Accession	Name	N° Marker	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,y	11,11			13,13	9,11		11,13	12,12							9,3,9,3	8,8	15,17
CVCL_1684	SCC-4	8	100.00%	XY	11	16,24	18	13	9,11	14	11,13	12	15	12,14	32,2	21,22	12	14	9,3	8	15,17

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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