

Cell Line Authentication Report

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1. Sample information:

Sample No.: “SMMC7721”

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	12			11	12	
D13S317	13.3	13.3			13.3	13.3	
D7S820	12	12			12	12	
D16S539	9	10			9	10	
VWA	16	17	18		16	18	
TH01	7	7			7	7	
AMEL	X	X			X	X	
TPOX	12	12			12	12	
CSF1PO	10	10			10	10	
D12S391	20	25					
FGA	18	21					
D2S1338	17	17					
D21S11	27	28					
D18S51	16	17					
D8S1179	12	12					
D3S1358	15	18					
D6S1043	18	18					
PENTAE	7	17					
D19S433	13	13					
PENTAD	8	15					

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 **90.91%**, the cell name is **SMMC-7721**.

Accession	Name	N° Markers	Score	Amel	CSF1PO	D2S133	D3S135	D5S81	D7S820	D8S1179	D13S317	D16S539	D18S51	D19S433	D21S11	FGA	Penta D	Penta E	TH01	TPOX	vWA
NA	Query	NA	NA	x,x	10,10			12,12	12,12		13.3,13.3	9,10							7,7	12,12	16,17,18
CVCL_0534	SMMC-7721	8	90.91%	X	10	17	15,18	11,12	12	12	13.3	9,10	16	13	27,28	18,21	8,15	7,17	7	12	16,18

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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