

Cell Line Authentication Report

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1. Sample information:

Sample No.: “SW48”

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				Cobioer Database		
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
D5S818	10	14			10	14	
D13S317	11	12			11	12	
D7S820	9	10			9	10	
D16S539	11	13			11	13	
VWA	18	20	21		18	20	21
TH01	6	9.3			6	9.3	
AMEL	X	X			X	X	
TPOX	8	8			8	8	
CSF1PO	9	10			9	10	
D12S391	20	20					
FGA	20	20					
D2S1338	19	27					
D21S11	28	31					
D18S51	13	13					
D8S1179	13	14	15				
D3S1358	14	15					
D6S1043	11	18					
PENTAE	13	18	19				
D19S433	14	14					
PENTAD	9.1	9.1					

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 **SW48**.

Accession	Name	N° Markers	Score	Ame	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	9,10		10,14	9,10		11,12	11,13								6,9,3	8,8	18,20,21
CVCL_1724 Best	SW48	8	100.00%	X	9,10	19,26,27	13,14,15	10,14	9,10	13,14	11,12	11,13	13	14	28,31	20	10	12,13	6,9,3	8	18,20,21

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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