

Cell Line Authentication Report

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1. Sample information:

Sample No.: “LOVO”

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	Allele4
D5S818	11	13			11	13		
D13S317	8	11			8	11		
D7S820	9.3	10	11		9.3	10	11	
D16S539	9	12			9	11	12	
VWA	17	18			17	18		
TH01	9.3	9.3			9.3	9.3		
AMEL	X	Y			X	Y		
TPOX	8	9			8	9		
CSF1PO	10	11	13	14	10	11	13	14
D12S391	20	22	23					
FGA	18	20						
D2S1338	17	18						
D21S11	29	31.2						
D18S51	13	18						
D8S1179	10	10						
D3S1358	14	17						
D6S1043	11	17						
PENTAE	10	16						
D19S433	14	15						
PENTAD	10	14						
D1S1656	13	14	16.3					

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 **LoVo**.

Accession	Name	N° Markers	Score	Allele	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	10,11,13,14			11,13	9,3,10,11		8,11	9,12							9,3,9,3	8,9	17,18
CVCL_0399.Dest	LoVo	8	97.30%	XY	10,11,13,14	16,17,18	14,15,16,17	11,13	9,3,10,11	9,10	8,11	9,11,12	13,17,18	14,15	29,31,2	18,19,20	9,10,14	9,16	9,3	8,9	17,18

C. The D16S539 Loci with 9,12 was supported by the paper (AddexBio=C0009011/380;ATCC=CCL-229;CCRID;CLS=300266;Cosmic-CLP=907790;ECACC=87060101;JCRB=IFO50067;JCRB=JCRB9083;PubMed=15771911;PubMed=25877200;PubMed=25926053; RCB=RCB1639).

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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