

Cell Line Authentication Report

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1. Sample information:

Sample No.: “A3”

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	11	14			11	14	
D13S317	12	14			12	14	
D7S820	7	7.1	10		7.1	10	
D16S539	10	14			10	14	
VWA	14	20			14	20	
TH01	9.3	10			9.3	10	
AMEL	X	X			X	X	
TPOX	8	10			8	10	
CSF1PO	12	14	15		12	14	
D12S391	20	24					
FGA	23	23					
D2S1338	20	23					
D21S11	29	30					
D18S51	15	18					
D8S1179	12	14					
D3S1358	17	17					
D6S1043	12	14	18				
PENTAE	9	16					
D19S433	14	14					
PENTAD	9	11					
D1S1656	13	18.3					

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 94.7%100%, the cell name is AN3-CA.

Cell line	Source	Shared	D5S818	D7S820	D13S317	D16S539	vWA	TH01	TPOX	CSF1PO	Amelogenin
	Your query		11, 14	7, 7.1, 10	12, 14	10, 14	14, 20	9.3, 10	8, 10	12, 14, 15	X, X
AN3-CA	DSMZ: ACC-267	9	11, 14	7.1, 10	12, 14	10, 14	14, 20	9.3, 10	8, 10	12, 14	X, X

C. The D7S820 Loci with 7,7.1,10 was supported by the paper(ATCC=HTB-111; PubMed=25877200) and the CSF1PO Loci with 12,14,15 was supported by the paper(ATCC=HTB-111; CLS=300119; Cosmic-CLP=910781; IZSLER=BS TCL 200).

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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