

Cell Line Authentication Report

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1. Sample information:

Sample No.: "LS174T"

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	Allele5
Amelogenin	X	X			X	X			
D5S818	11	15			11	15	14		
D13S317	10	11			10	11	9		
D7S820	10.3	11			10.3	11			
D16S539	11	13			11	13	12		
vWA	15	17			15	17	16	18	19
TH01	6	7			6	7			
TPOX	8	9			8	9			
CSF1PO	10	14			10	14	11	13	
D19S433	14	15							
D21S11	29	31							
D18S51	11	13							
D6S1043	12	13							
D3S1358	15	17							
Penta D	10	10							
D2S441	10	11							
D8S1179	12	16							
Penta E	15	16							
D12S391	18	20							
D2S1338	18	22							
FGA	21	22							

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 **LS-174T**.

Similarity	Cell line	Source	Shared	D5S818	D7S820	D13S317	D16S539	vWA	TH01	TPOX	CSF1PO	Amelogenin
		Your query		11, 15	10.3, 11	10, 11	11, 13	15, 17	6, 7	8, 9	10, 14	X, X
100 %	LS-174T	DSMZ: ACC-759	9	11, 15, 14	10.3, 11	10, 11, 9	11, 12, 13	15, 18, 16, 17, 19	6, 7	8, 9	10, 14, 11, 13	X, X

C. The D5S818 Loci with 11,14,15 and the D13S317 Loci with 9,10,11 and the D16S539 Loci with 9,10,11 and the vWA Loci with 15,16,17,18,19 and the CSF1PO Loci with 10,11,13,14 were supported by the paper(DSMZ=ACC-759).

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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