

Cell Line Authentication Report

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1. Sample information:

Sample No.: “NCI-H596”

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 were analyzed using GeneMapper4.0 software and then compared with the ATCC, DSMZ or JCRB databases for reference matching.

3. Results:

STR profile

Marker	Sample				ATCC		
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
D5S818	11	13			11	13	
D13S317	11	11			11	11	
D7S820	11	11			11	11	
D16S539	11	11			11	11	
VWA	16	16			16	16	
TH01	7	9.3			7	9.3	
AMEL	X	X			X	X	
TPOX	8	8			8	8	
CSF1PO	12	13			12	13	
D12S391	17	22					
FGA	23	25					
D2S1338	22	22					
D21S11	29	29					
D18S51	18	18					
D8S1179	13	14					
D3S1358	14	14					
D6S1043	13	13					
PENTAE	12	15					
D19S433	13	14					
PENTAD	13	13					
D1S1656	12	16.3					

4. Conclusion

A. The STR results showed that there were no four alleles on the main nine locus, it is certainly no cross contamination of human cells in the cell line.

B. The percent match between the sample and the DSMZ database profile is **100%**, the cell name is **NCI-H596 [H596]**.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
		<i>Query (Your Cell)</i>	11,13	11,11	11,11	11,11	16,16	7,9,3	X,X	8,8	12,13
1.0(36/36)	HTB-178	NCI-H596 [H596]	[11, 13]	[11, 11]	[11, 11]	[11, 11]	[16, 16]	[7, 9, 3]	[X, X]	[8, 8]	[12, 13]

Note:

1. The STR profile data was compared with the ATCC, DSMZ or JCRB databases, if the cell line was not included in the three institutions, the results was not correct. More information you provide 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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