

Cell Line Authentication Report

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1. Sample information:

Sample No.: “NCI-H1581”

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				DSMZ Database		
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
D5S818	12	12			12	12	
D13S317	11	11			11	11	
D7S820	9	11			9	11	
D16S539	9	9			9	9	
VWA	15	16			15	16	
TH01	6	7			6	7	
AMEL	X	X			X	Y	
TPOX	8	9			8	9	
CSF1PO	12	12			12	12	
D12S391	17	17					
FGA	22	22					
D2S1338	24	25					
D21S11	29	31					
D18S51	15	15					
D8S1179	10	14					
D3S1358	14	14					
D6S1043	12	19					
PENTAE	12	17					
D19S433	14	14					

PENTAD	13	13					
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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 STR database profile is **94%/100%**, the cell name is **NCI-H1581**.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
		<i>Query (four Cell)</i>	12, 12	11, 11	9, 11	9, 9	15, 16	6, 7	X, X	8, 9	12, 12
0.94(34/36)	CRL-5878	NCI-H1581	12, 12	11, 11	9, 11	9, 9	15, 16	6, 7	X, Y	8, 9	12, 12

C. The AMEL loci was reported with the data x,x (PubMed=25877200).

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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Leader: Wei Zhou

Data: 2017-07-04