

Cell Line Authentication Report

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1. Sample information:

Sample No.: “NCI-H226”

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	12			11	12	
D13S317	13	14			13	14	
D7S820	8	10			8	10	
D16S539	9	12			9	12	
VWA	17	17			17	17	
TH01	8	9.3			8	9.3	
AMEL	X	Y			X	Y	
TPOX	8	11			8	11	
CSF1PO	10	11			10	11	
D12S391	22	22					
FGA	20	23					
D2S1338	25	25					
D21S11	29	32.2					
D18S51	16	16					
D8S1179	14	15					
D3S1358	16	16					
D6S1043	13	18					
PENTAE	12	15					
D19S433	15	15					
PENTAD	9	10					
D1S1656	16	16					

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 **NCI-H226 [H226]**.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
		Query (Your Cell)	11,12	13,14	8,10	9,12	17,17	8,9,3	X,Y	8,11	10,11
1.0(36/36)	CRL-5826	NCI-H226 [H226]	[11', '12']	[13', '14']	[8', '10']	[9', '12']	[17', '17']	[8', '9,3']	[X', 'Y']	[8', '11']	[10', '11']

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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