

Cell Line Authentication Report

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1. Sample information:

Sample No.: “Nthy-ori3-1”

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
Amelogenin	X	X			X	X	
D5S818	11	11			11	11	
D13S317	11	11			11	11	
D7S820	7	12			7	12	
D16S539	12	13			12	13	
vWA	16	18			16	18	
TH01	7	7			7	7	
TPOX	9	9			9	9	
CSF1PO	12	12			12	12	
D19S433	16.2	16.2					
D21S11	29	30					
D18S51	14	14					
D6S1043	11	11					
D3S1358	14	16					
Penta D	8	13					
D2S441	11	11					
D8S1179	12	12					
Penta E	7	13					
D12S391	17.3	20					
D2S1338	20	26					
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 **Nthy-ori 3-1**.

Accession	Name	N° Markers	Score	Allele	C5F1PQ	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D19S433	D21S11	FGA	Penta D	Penta E	TH01	TPOX	vWA
NA	Query	NA	NA	x,x	12,12			11,11	7,12		11,11	12,13							7,7	9,9	16,18
CVCL_2659 Best	Nthy-ori 3-1	8	100.00%	X	12		14,16	11	7,12	12	11	12,13	14		29,30	21,22			Z	9	16,18

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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