Cell Line Authentication Report

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科伯生物Cobioer

1. Sample information:

Sample No.: “HCC44”

2. Methods:

a. Genomic DNA was extracted from the cell pellets provided by the customer.
b. Samples, together with positive and negative control were amplified using GenePrint System (Promega).
c. Amplified products were processed using the ABI3730xl Genetic Analyzer.
d. 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	13			11	13	
D13S317	11	11			11	11	
D7S820	8	10			8	10	
D16S539	9	13			9	13	
vWA	15	15			15	15	
TH01	9	9			9	9	
TPOX	8	12			8	12	
CSF1PO	9	11			9	11	
D19S433	14	16					
D21S11	28	32.2					
D18S51	17	17					
D6S1043	12	12					
D3S1358	14	15					
Penta D	12	12					
D2S441	10	14					
D8S1179	14	15					
Penta E	10	12					
D12S391	20	20					
D2S1338	17	24					
FGA	24	24					

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 **HCC-44.**

Similarity	Cell line	Source	Shared	D5S818	D7S820	D13S317	D16S539	vWA	TH01	TPOX	CSF1PO	Amelogenin
?		Your query		11, 13	8, 10	11, 11	9, 13	15, 15	9, 9	8, 12	9, 11	X, X
100 %	HCC-44	DSMZ: ACC-534	9	11, 13	8, 10	11, 11	9, 13	15, 15	9, 9	8, 12	9, 11	X, X

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 ≥80% but less than 100% match are considered to be "related".

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