Cell Line Authentication Report

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科佰生物Cobioer

1. Sample information:

Sample No.: “KATO III”

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
D5S818	10	11			10	11	
D13S317	8	12			8	12	
D7S820	8	12			8	12	
D16S539	10	12			10	12	
VWA	14	16			14	16	
TH01	7	9			7	9	
AMEL	X	X			X	X	
TPOX	11	11			11	11	
CSF1PO	7	11			7	11	
D12S391	18	20					
FGA	23	24					
D2S1338	18	20					
D21S11	30	31					
D18S51	12	12					
D8S1179	13	14					
D3S1358	15	16					
D6S1043	12	18	20				
PENTAE	13	18					
D19S433	13	16					
PENTAD	13	14					
D1S1656	16	17					

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 **KATO III.**

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
	Query (Your Cell)		10,11,	8,12,	8,12,	10,12,	14,16,	7,9,	X,X,	11,11,	7,11,
1.0(36/36)	HTB-103	KATO III	['10', '11']	['8', '12']	['8', '12']	['10', '12']	['14', '16']	['7', '9']	['X', 'X']	['11', '11']	['7', '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 ≥80% but less than 100% match are considered to be "related".

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