

Cell Line Authentication Report

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1. Sample information:

Sample No.: “KYSE-510”

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 10 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		
	Allele1	Allele2	Allele3	Allele4	Allele1	Allele2	Allele3
D5S818	11	11			11	11	
D13S317	12	12			12	12	
D7S820	11	12			11	12	
D16S539	9	9			9	9	
VWA	14	14			14	14	
TH01	9	9			9	9	
AMEL	X	X			X	X	
TPOX	8	8			8	8	
CSF1PO	11	13			11	13	
D12S391	18	21					
FGA	22	22					
D2S1338	20	23					
D21S11	31	31					
D18S51	15	15					
D8S1179	10	10					
D3S1358	17	17					
D6S1043	14	14					
PENTAE	16	16					
D19S433	15	15					
PENTAD	12	12					
D1S1656	13	13					

4. Conclusion

A. The STR results showed that there were no four alleles on the main nine locus, it was certainly no cross contamination of human cells in the cell line.

B. The match percent between the sample and the STR database profile is **100%**, the cell name is **KYSE-510**.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
		Query (Your Cell)	11,11	12,12	11,12	9,9	14,14	9,9	X,X	8,8	11,13
1.0(36/36)	374	KYSE-510	['11','11']	['12','12']	['11','12']	['9','9']	['14','14']	['9','9']	['X','X']	['8','8']	['11','13']

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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