

Cell Line Authentication Report

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1. Sample information:

Sample No.: “QGP-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
D5S818	12	12			12	12	
D13S317	13	13			13	13	
D7S820	12	12			12	12	
D16S539	10	12			10	12	
VWA	14	18			14	17	18
TH01	6	9			6	9	
AMEL	X	X			X	X	
TPOX	8	11			8	11	
CSF1PO	10	12			10	12	
D12S391	24	26					
FGA	21	23					
D2S1338	24	24					
D21S11	29	29					
D18S51	13	13					
D8S1179	14	14					
D3S1358	14	17					
D6S1043	13	15					
PENTAE	5	24					
D19S433	14	14					
PENTAD	13	13					
D1S1656	13	17.3					

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 **97%/100%**, the cell name is **QGP-1**.

EV	Cell No.	Cell name	Locus names								
			D5S818	D13S317	D7S820	D16S539	VWA	TH01	AM	TPOX	CSF1PO
	Query (Your Cell)		12,12	13,13	12,12	10,12	14,18	6,9	X,X	8,11	10,12
0.97(35/36)	JCRB0183	QGP-1	['12', '12']	['13', '13']	['12', '12']	['10', '12']	['14', '17', '18']	['6', '9']	['X', 'X']	['8', '11']	['10', '12']

C. The VWA Loci with 14,18 was supported by the paper(Cosmic-CLP; PubMed=25877200; PubMed=29444910).

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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