

# Cell Line Authentication Report

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## 1. Sample information:

Sample No.: “KPL-4”

## 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	11	13			11	13	
D13S317	12	12			12	12	
D7S820	9	10			9	10	
D16S539	12	12			12	12	
VWA	14	19			14	19	
TH01	9	9			9	9	
AMEL	X	X			X	X	
TPOX	8	8			8	8	
CSF1PO	11	13			11	13	
D12S391	18	25	26				
FGA	19	19					
D2S1338	18	25					
D21S11	29	32.2					
D18S51	15	15					
D8S1179	16	16					
D3S1358	16	17					
D6S1043	14	14					
PENTAE	11	12					
D19S433	13	13					
PENTAD	10	14					

#### 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 **KPL-4**.
- C. STR profile was published: PubMed=25877200.

#### 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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