

STR Authentication Report For Cell Line

1. Cell Name: GM12878
2. Test Method: DNA was extracted using the genome extraction kit (Axygen), amplified using a 21- STR amplification protocol, the STR loci and gender gene Amelogenin were detected on the ABI 3730XL Genetic Analyzer.
3. Sample gene genotype analysis result:

Genotype analysis results of STR and Amelogenin loci in cells						
STR Loci	STR profile for Sample cell			STR profile for Cell Bank cell		
	Cell name: GM12878-K			Cell name: GM12878		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	12	12		12	12	
D13S317	11	12		11	12	
D7S820	8	10		8	10	
D16S539	10	11		10	11	
VWA	15	17		15	17	
TH01	7	9.3		7	9.3	
AMEL	X	X		X	X	
TPOX	8	8		8	8	
CSF1PO	10	11		10	11	
D12S391	16	17		16	17	
FGA	22	24		22	24	
D2S1338	17	20		17	20	
D21S11	30	30		30	30	
D18S51	16	17		16	17	
D8S1179	12	12		12	12	
D3S1358	16	17		16	17	
D6S1043	11	12		11	12	

PENTAE	7	12		7	12	
D19S433	12	14		12	14	
PENTAD	11	13		11	13	
D1S1656	14	16		14	16	

4. Conclusion: The STR results of **GM12878** cells are consistent with the genotypes of **GM12878** cell lines in database, the cell ID corresponded to **CVCL_7526**, and the STR results **completely matched**. In the test, **No multi allele was found, and there was no human source contamination** in this cell line.

5. Attached Image

