

## STR Authentication Report For Cell Line

1. Cell Name: HCT 116
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: HCT 116			Cell name: HCT 116		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	10	11		10	11	
D13S317	10	12		10	12	
D7S820	11	12		11	12	
D16S539	11	13		11	13	
VWA	17	22		17	17	
TH01	8	9		8	9	
AMEL	X	X		X	Y	
TPOX	8	8		8	9	
CSF1PO	7	10		7	10	

Note: The above figure shows the comparison results of nine genotype loci for detecting cells and cells from the cell bank.

4. Conclusion: The STR results of **HCT 116** cells are consistent with the genotypes of **HCT 116** cell lines in **DSMZ** database, the cell ID corresponded to **CVCL\_0291** , and the STR results **basically matched**. In the test, **No multi allele was found** in this cell line.

## 5. Attached Image

