

## STR Authentication Report For Cell Line

1. Cell Name: SH-SY5Y
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: SH-SY5Y			Cell name: SH-SY5Y		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	12	12		12	12	
D13S317	11	11		11	11	
D7S820	7	10		7	10	
D16S539	8	13		8	13	
VWA	14	18		14	18	
TH01	7	10		7	10	
AMEL	X	X		X	X	
TPOX	8	11		8	11	
CSF1PO	11	11		11	11	

**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 **SH-SY5Y** cells are consistent with the genotypes of **SH-SY5Y** cell lines in **DSMZ** database, the cell ID corresponded to **209** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

## 5. Attached Image

