

STR Authentication Report For Cell Line

1. Cell Name: HaCaT

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: HaCaT-Y02-MS			Cell name: HACAT		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	12	12		12	12	
D13S317	10	12		10	12	
D7S820	9	11		9	11	
D16S539	9	12		9	12	
VWA	16	17		16	17	
TH01	9.3	9.3		9.3	9.3	
AMEL	X	X		X	X	
TPOX	11	12		11	12	
CSF1PO	9	11		9	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 **HaCaT** cells are consistent with the genotypes of **HaCaT** cell lines in **DSMZ** database, the cell ID corresponded to **771** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

5. Attached Image

