

STR Authentication Report For Cell Line

1. Cell Name: A549
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: A549			Cell name: A-549		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	11		11	11	
D13S317	11	11		11	11	
D7S820	8	11		8	11	
D16S539	11	12		11	12	
VWA	14	14		14	14	
TH01	8	9.3		8	9.3	
AMEL	X	Y		X	Y	
TPOX	8	11		8	11	
CSF1PO	10	12		10	12	

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 **A549** cells are consistent with the genotypes of **A549** cell lines in **DSMZ** database, the cell ID corresponded to **ACC-107** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

5. Attached Image

