

## STR Authentication Report For Cell Line

1. Cell Name: NCI-H1975
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: NCI-H1975			Cell name: NCI-H1975[H-1975, H1975]		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	10	13		10	13	
D7S820	8	8		8	11	
D16S539	9	12		9	12	
VWA	18	18		18	18	
TH01	7	7		7	7	
AMEL	X	X		X	X	
TPOX	8	11		8	11	
CSF1PO	12	12		12	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 **NCI-H1975** cells are consistent with the genotypes of **NCI-H1975** cell lines in **EXPASY** database, the cell ID corresponded to **CRL-5908** , and the STR results **basically matched**. In the test, **No multi allele was found** in this cell line.

### 5. Attached Image

