

## STR Authentication Report For Cell Line

1. Cell Name: MRC-5
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: MRC-5			Cell name: MRC-5		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	11	14		11	14	
D7S820	10	11		10	11	
D16S539	9	11		9	11	
VWA	15	15		15	15	
TH01	8	8		8	8	
AMEL	X	Y		X	Y	
TPOX	8	8		8	8	
CSF1PO	11	12		11	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 **MRC-5** cells are consistent with the genotypes of **MRC-5** cell lines in **DSMZ** database, the cell ID corresponded to **CCL-171** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

### 5. Attached Image

