

STR Authentication Report For Cell Line

1. Cell Name: K562
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: K562			Cell name: K-562		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	8	8		8	8	
D7S820	9	11		9	11	
D16S539	11	12		11	12	
VWA	16	16		16	16	
TH01	9.3	9.3		9.3	9.3	
AMEL	X	X		X	X	
TPOX	8	9		8	9	
CSF1PO	9	10		9	10	

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 **K-562** cells are consistent with the genotypes of **K-562** cell lines in **DSMZ** database, the cell ID corresponded to **CCL-243** , and the STR results **completely matched**. In the test, **Multi allele was found** in this cell line.

5. Attached Image

