

## STR Authentication Report For Cell Line

1. Cell Name: HEL
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:

<b>Genotype analysis results of STR and Amelogenin loci in cells</b>						
STR Loci	STR profile for Sample cell			STR profile for Cell Bank cell		
	Cell name: HEL-Y02-K			Cell name: HEL		
	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	11		11	11	
D13S317	9	11		9	11	
D7S820	7	7		7	7	
D16S539	11	11		11	11	
VWA	14	17		14	17	
TH01	7	7		7	7	
AMEL	X	X		X	X	
TPOX	11	11		11	11	
CSF1PO	10	10		10	10	
D12S391	18	21				
FGA	21	22	23.0			
D2S1338	18	19				
D21S11	29	30.2	31.2			
D18S51	12	16				
D8S1179	13	15				
D3S1358	15	15				
D6S1043	11	13				

PENTAE	13	18				
D19S433	11	13				
PENTAD	11	13				
D1S1656	17.3	17.3				

4. Conclusion: The STR results of **HEL** cells are consistent with the genotypes of **HEL** cell lines in **DSMZ** database, the cell ID corresponded to **JCRB0062** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

### 5. Attached Image

