

## STR Authentication Report For Cell Line

1. Cell Name: Hela

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: hela-Y04-K-      |         |         | Cell name: HELA                |         |         |
|                                                               | Allele1                     | Allele2 | Allele3 | Allele1                        | Allele2 | Allele3 |
| D5S818                                                        | 11                          | 12      |         | 11                             | 12      |         |
| D13S317                                                       | 12                          | 13.3    |         | 12                             | 13.3    |         |
| D7S820                                                        | 8                           | 12      |         | 8                              | 12      |         |
| D16S539                                                       | 9                           | 10      |         | 9                              | 10      |         |
| VWA                                                           | 16                          | 18      |         | 16                             | 18      |         |
| TH01                                                          | 7                           | 7       |         | 7                              | 7       |         |
| AMEL                                                          | X                           | X       |         | X                              | X       |         |
| TPOX                                                          | 8                           | 12      |         | 8                              | 12      |         |
| CSF1PO                                                        | 9                           | 10      |         | 9                              | 10      |         |
| D12S391                                                       | 20                          | 24      | 25.0    |                                |         |         |
| FGA                                                           | 21                          | 21      |         |                                |         |         |
| D2S1338                                                       | 17                          | 17      |         |                                |         |         |
| D21S11                                                        | 27                          | 28      |         |                                |         |         |
| D18S51                                                        | 16                          | 16      |         |                                |         |         |
| D8S1179                                                       | 12                          | 13      |         |                                |         |         |

|         |    |    |  |  |  |  |
|---------|----|----|--|--|--|--|
| D3S1358 | 15 | 18 |  |  |  |  |
| D6S1043 | 18 | 19 |  |  |  |  |
| PENTAE  | 7  | 17 |  |  |  |  |
| D19S433 | 13 | 14 |  |  |  |  |
| PENTAD  | 8  | 15 |  |  |  |  |
| D1S1656 | 12 | 15 |  |  |  |  |

4. Conclusion: The STR results of Hela cells are consistent with the genotypes of Hela cell lines in DSMZ database, the cell ID corresponded to 57 , and the STR results completely matched. In the test, No multi allele was found in this cell line.

## 5. Attached Image



