

## STR Authentication Report For Cell Line

1. Cell Name: SH-SY5Y

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: SH-SY5Y          |         |         | Cell name: SH-SY5Y             |         |         |
|   | Allele1                     | Allele2 | Allele3 | Allele1                        | Allele2 | Allele3 |
| D5S818  | 12                          | 12      |         | 12                             | 12      |         |
| D13S317   | 11                          | 11      |         | 11                             | 11      |         |
| D7S820  | 7                           | 10      |         | 7                              | 10      |         |
| D16S539   | 8                           | 13      |         | 8                              | 13      |         |
| VWA   | 14                          | 18      |         | 14                             | 18      |         |
| TH01  | 7                           | 10      |         | 7                              | 10      |         |
| AMEL  | X                           | X       |         | X                              | X       |         |
| TPOX  | 8                           | 11      |         | 8                              | 11      |         |
| CSF1PO  | 11                          | 11      |         | 11                             | 11      |         |
| D12S391   | 18                          | 22      |         |                                |         |         |
| FGA   | 23.2                        | 24      |         |                                |         |         |
| D2S1338   | 17                          | 19      |         |                                |         |         |
| D21S11  | 31                          | 31.2    |         |                                |         |         |
| D18S51  | 13                          | 16      |         |                                |         |         |
| D8S1179   | 15                          | 15      |         |                                |         |         |

|         |    |    |  |  |  |  |
|---------|----|----|--|--|--|--|
| D3S1358 | 15 | 16 |  |  |  |  |
| D6S1043 | 12 | 18 |  |  |  |  |
| PENTAE  | 7  | 11 |  |  |  |  |
| D19S433 | 13 | 14 |  |  |  |  |
| PENTAD  | 10 | 12 |  |  |  |  |
| D1S1656 | 12 | 12 |  |  |  |  |

4. Conclusion: The STR results of **SH-SY5Y** cells are consistent with the genotypes of **SH-SY5Y** cell lines in **DSMZ** database, the cell ID corresponded to **209** , and the STR results **completely matched**. In the test, **No multi allele was found** in this cell line.

### 5. Attached Image



