

# Cell Line Authentication Report

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## 1. Sample information:

Sample No.: “HCC-78”

## 2. Methods:

- Genomic DNA was extracted from the cell pellets provided by the customer.
- Samples, together with positive and negative control were amplified using GenePrint System (Promega).
- Amplified products were processed using the ABI3730xl Genetic Analyzer.
- Data was analyzed by GeneMapper4.0 software and then compared with the ATCC, DSMZ or JCRB databases for reference matching.

## 3. Results:

STR profile

| Marker  | Sample  |         |         |         | Database |         |         |
|---------|---------|---------|---------|---------|----------|---------|---------|
|         | Allele1 | Allele2 | Allele3 | Allele4 | Allele1  | Allele2 | Allele3 |
| D5S818  | 11      | 12      |         |         | 11       | 12      |         |
| D13S317 | 8       | 12      |         |         | 8        | 12      |         |
| D7S820  | 9       | 9       |         |         | 9        | 9       |         |
| D16S539 | 11      | 13      |         |         | 11       | 13      |         |
| VWA     | 15      | 18      |         |         | 15       | 18      |         |
| TH01    | 7       | 9.3     |         |         | 7        | 9.3     |         |
| AMEL    | X       | Y       |         |         | X        | Y       |         |
| TPOX    | 8       | 11      |         |         | 8        | 11      |         |
| CSF1PO  | 11      | 12      |         |         | 11       | 12      |         |
| D12S391 | 19      | 21      |         |         |          |         |         |
| FGA     | 21      | 22      |         |         |          |         |         |
| D2S1338 | 17      | 21      |         |         |          |         |         |
| D21S11  | 29      | 30      |         |         |          |         |         |
| D18S51  | 12      | 16      |         |         |          |         |         |
| D8S1179 | 13      | 14      |         |         |          |         |         |
| D3S1358 | 16      | 17      |         |         |          |         |         |
| D6S1043 | 11      | 14      |         |         |          |         |         |
| PENTAE  | 11      | 12      |         |         |          |         |         |
| D19S433 | 16      | 16.2    |         |         |          |         |         |
| PENTAD  | 7       | 11      |         |         |          |         |         |

#### 4. Conclusion

A. The STR results show that there are no four alleles on the main nine locus, there is certainly no cross contamination of human cells in this cell line.

B. The match percent between the sample and the STR database profile is **100%**, the cell name is **HCC-78**.

| EV          | Cell No.          | Cell name | Locus names |         |        |         |       |       |     |      |        |
|-------------|-------------------|-----------|-------------|---------|--------|---------|-------|-------|-----|------|--------|
|             |                   |           | D5S818      | D13S317 | D7S820 | D16S539 | VWA   | TH01  | AM  | TPOX | CSF1PO |
|             | Query (Your Cell) |           | 11,12       | 8,12    | 9,9    | 11,13   | 15,18 | 7,9.3 | x,y | 8,11 | 11,12  |
| 1.00(36/36) | 563               | HCC-78    | 11,12       | 8,12    | 9,9    | 11,13   | 15,18 | 7,9.3 | X,Y | 8,11 | 11,12  |

#### Note:

1. The STR profile data was compared with the ATCC, DSMZ or JCRB databases, if the cell line is not included in the three institutions, the results are not correct. More information you provided would be useful for Cell Line Authentication.
2. Based on the ANSI Standard, cell lines with 100% match are considered to be “identical”; cell lines with  $\geq 80\%$  but less than 100% match are considered to be “related”.

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