



Cell Line Authentication Service STR Profile Report

Sales Order: 240419M
Cell Line Designation: 10
Date Sample Received: Apr 19th, 2024
Report Date: Apr 24th, 2024

Methodology: Twenty-one short tandem repeat (STR) loci plus the Amelogenin locus were amplified using the commercially available SiFaSTR™ 23 plex Kit. The cell line sample was processed using the ABI Prism® 3130 XL Genetic Analyzer. Data were analyzed using GeneMapper® ID v3.2 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

Data Interpretation: Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2021 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Jamie L. Almeida et al., Authentication of Human and Mouse Cell Lines by Short Tandem Repeat (STR) DNA Genotype Analysis. Assay Guidance Manual. PMID: 23805434. Bookshelf ID: NBK144066.

GTB™ performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.

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NOTE: According to the recommendations of IJC on cell line authentication, the report is valid for 3 years since the issue date.

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| Loci | Test Results for Submitted Sample | | ExPASy Reference Database Profile | |
|------------|-----------------------------------|----|-----------------------------------|-----------|
| | Query Profile: 10 | | Database Profile: Hep-G2 | |
| Amelogenin | X | Y | | |
| D3S1358 | 15 | 16 | 15 | 16 |
| D5S818 | 11 | 12 | 11 | 12 |
| D2S1338 | 19 | 20 | | |
| TPOX | 8 | 9 | 8 | 9 |
| CSF1PO | 10 | 11 | 10 | 11 |
| Penta D | 9 | 13 | | |
| TH01 | 9 | | 9 | |
| vWA | 17 | | 17 | |
| D7S820 | 10 | | 10 | |
| D21S11 | 29 | 31 | 29 | 31 |
| Penta E | 15 | 20 | | |
| D10S1248 | 13 | | | |
| D8S1179 | 15 | 16 | 15 | 16 |
| D1S1656 | 11 | 12 | | |
| D18S51 | 13 | 14 | 13 | 14 |
| D12S391 | 21 | 25 | | |
| D6S1043 | 13 | | | |
| D19S433 | 15.2 | | | |
| D16S539 | 12 | | 12 | <u>13</u> |
| D13S317 | 9 | 13 | 9 | 13 |
| FGA | 22 | 25 | 22 | 25 |

The allele match algorithm compares the 13 core STR loci only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (13 core STR loci) can be made public to verify cell identity. In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.

The sample match is based on the reference data available at the time of comparison.

Explanation of Test Results

Cell lines with ≥80% match are derived from the same donor. Cell lines with between a 70% to 79% match require further profiling for authentication of relatedness. Cell lines with <70% match are very unlikely to be from the same donor.

- The submitted sample profile is human, but not a match for any profile in the ExPASy STR database.
- The submitted profile is an exact match for the following human cell line(s) in the ExPASy STR database (13 core STR loci):
- The submitted profile is similar to the following ExPASy human cell line(s): Hep-G2 (97.78% match)

e-Signature Technician:



Digitally signed by Xuekun Chen
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e-Signature Reviewer:

Digitally signed by Xiankun Zhao
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More information

Addendum: Electropherogram for the customer's sample set 1 of 1



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