



Cell Line Authentication Service STR Profile Report

Sample Submitted By: Dr. Zuokang Zheng
Zhejiang Meisen Cell Technology Co.,Ltd.
Email Address: 947638289@qq.com
Sales Order: 201015F
Cell Line Designation: 3-113
Date Sample Received: Oct 15th, 2020
Report Date: Oct 16th, 2020

Methodology: Nineteen short tandem repeat (STR) loci plus the gender determining locus, Amelogenin, were amplified using the commercially available EX20 Kit from AGCU. 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 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line? Int J Cancer. 2013;132(11):2510-9.

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 *JJC* on cell line authentication, the report is valid for 3 years since the issue date.

Technical Questions?
GTB Technical Support
+86-512-67486171
service@jsdna.org
Section 505, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China

Ordering Questions?
order@jsdna.org
GTB Corporation
+86-512-62806339
Section 303, Yixin BLD
SIP, Suzhou, 215123
Jiangsu, P.R. China



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| Loci | Test Results for Submitted Sample | | ExPASy Reference Database Profile | |
|------------|-----------------------------------|------|-----------------------------------|----|
| | Query Profile: 3-113 | | Database Profile: hCMEC/D3 | |
| Amelogenin | X | | X | |
| D3S1358 | 16 | 17 | | |
| D13S317 | 11 | 14 | 11 | 14 |
| D7S820 | 10 | 12 | 10 | 12 |
| D16S539 | 9 | 12 | 9 | 12 |
| Penta E | 5 | 10 | | |
| TPOX | 10 | 11 | 10 | 11 |
| TH01 | 7 | 9 | 7 | 9 |
| D2S1338 | 16 | 20 | | |
| CSF1PO | 10 | 12 | 10 | 12 |
| Penta D | 10 | 12 | | |
| D19S433 | 12 | 15 | | |
| vWA | 14 | 17 | 14 | 17 |
| D21S11 | 30 | 32.2 | | |
| D18S51 | 12 | 19 | | |
| D6S1043 | 17 | 18 | | |
| D8S1179 | 15 | 16 | | |
| D5S818 | 11 | | 11 | |
| D12S391 | 19.3 | 22 | | |
| FGA | 22 | 26 | | |

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (8 core STR loci plus Amelogenin) 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 $\geq 80\%$ match are considered to be related; i.e., derived from a common ancestry. Cell lines with between a 55% to 80% match require further profiling for authentication of relatedness.

- 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 (8 core loci plus Amelogenin): hCMEC/D3
- The submitted profile is similar to the following ExPASy human cell line(s):

e-Signature Technician:



e-Signature Reviewer:



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

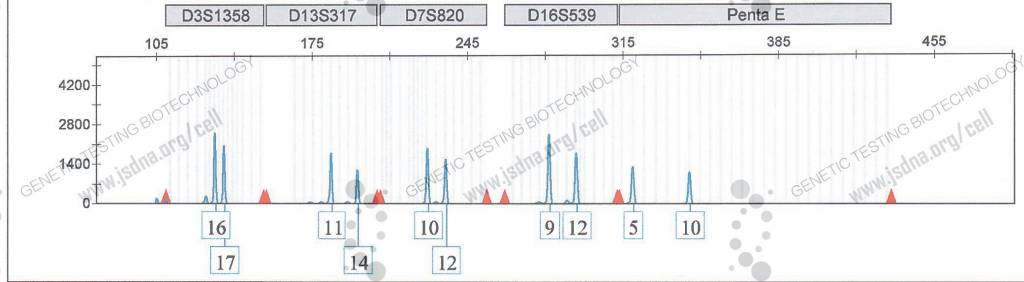


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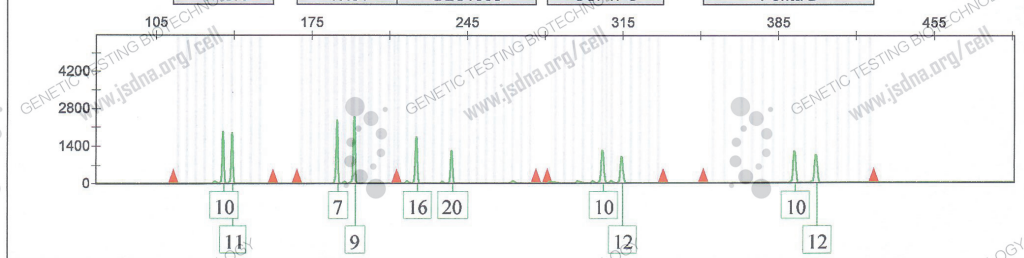
Applied Biosystems
GeneMapper ID v3.2

201016

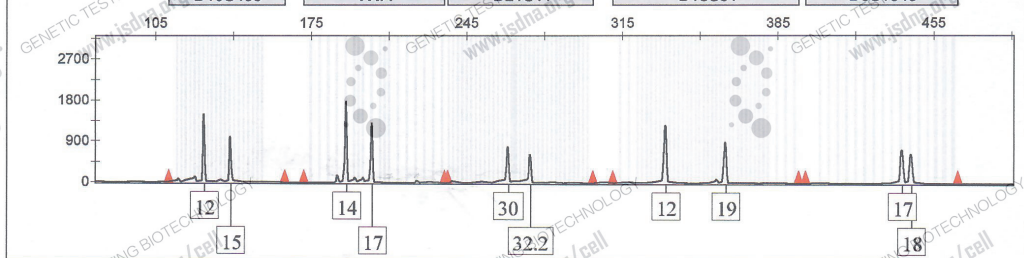
| Sample Name | Panel | SQO | SQ |
|-------------|------------------------|-----|----|
| 3-113 | AGCU_EX20_STR_Kit_v1.0 | | |



| Sample Name | Panel | SQO | SQ |
|-------------|------------------------|-----|----|
| 3-113 | AGCU_EX20_STR_Kit_v1.0 | | |



| Sample Name | Panel | SQO | SQ |
|-------------|------------------------|-----|----|
| 3-113 | AGCU_EX20_STR_Kit_v1.0 | | |



| Sample Name | Panel | SQO | SQ |
|-------------|------------------------|-----|----|
| 3-113 | AGCU_EX20_STR_Kit_v1.0 | | |

